



Salicylic acid

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| Verze | Datum revize: | Číslo BL (bezpečnostního listu): | Datum posledního vydání: 02.10.2020 |
| 3.1 | 14.06.2023 | 300000016981 | Datum prvního vydání: 23.05.2017 |

ODDÍL 1: Identifikace látky/směsi a společnosti/podniku

1.1 Identifikátor výrobku

| | |
|-------------------------|-----------------------|
| Obchodní název | : Salicylic acid |
| Kód výrobku | : 000000005708390000 |
| registrační číslo REACH | : 01-2119486984-17 |
| Název látky | : kyselina salicylová |
| Č. CAS | : 69-72-7 |
| Č. indexu | : 607-732-00-5 |
| Č.ES | : 200-712-3 |
| INCI | : SALICYLIC ACID |

1.2 Příslušná určená použití látky nebo směsi a nedoporučená použití

Použití látky nebo směsi : Léčivé látky, Kosmetické prostředky
Další informace najdete v bezpečnostním listu (eSDS) na webu.

1.3 Podrobné údaje o dodavateli bezpečnostního listu

Firma Ekokoza s.r.o.
Fryčovice 297
73945, Fryčovice
eshop@ekokoza.cz
+420605779993

1.4 Telefonní číslo pro naléhavé situace

Toxikologické informační středisko, Na Bojišti 1, 128 21 Praha, Tel: 224 919 293 nebo 224 915 402 (nepřetržitá lékařská služba).

ODDÍL 2: Identifikace nebezpečnosti

2.1 Klasifikace látky nebo směsi

Klasifikace (NAŘÍZENÍ (ES) č. 1272/2008)

| | |
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| Akutní toxicita, Kategorie 4 | H302: Zdraví škodlivý při požití. |
| Vážné poškození očí, Kategorie 1 | H318: Způsobuje vážné poškození očí. |
| Toxicita pro reprodukci, Kategorie 2 | H361d: Podezření na poškození plodu v těle matky. |



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2.2 Prvky označení

Označení (NAŘÍZENÍ (ES) č. 1272/2008)

Výstražné symboly nebezpečnosti :



Signálním slovem : Nebezpečí

Standardní věty o nebezpečnosti :

H302 Zdraví škodlivý při požití.
H318 Způsobuje vážné poškození očí.
H361d Podezření na poškození plodu v těle matky.

Pokyny pro bezpečné zacházení : **Prevence:**

P201 Před použitím si obzorejte speciální instrukce.
P264 Po manipulaci důkladně omyjte kůži.
P280 Používejte ochranné rukavice/ ochranný oděv/ ochranné brýle/ obličejový štít/ chrániče sluchu.

Opatření:

P305 + P351 + P338 + P310 PŘI ZASAŽENÍ OČÍ: Několik minut opatrně vyplachujte vodou. Vyjměte kontaktní čočky, jsou-li nasazeny a pokud je lze vyjmout snadno. Pokračujte ve vyplachování. Okamžitě volejte TOXIKOLOGICKÉ INFORMAČNÍ STŘEDISKO/ lékaře.
P308 + P313 PŘI expozici nebo podezření na ni: Vyhledejte lékařskou pomoc/ ošetření.

Odstranění:

P501 Odstraňte obsah/ obal v zařízení schváleném pro likvidaci odpadů.

2.3 Další nebezpečnost

Látka/směs neobsahuje složky považované buď za perzistentní, bioakumulativní a toxické (PBT), nebo za vysoce perzistentní a vysoce bioakumulativní (vPvB) v koncentraci 0,1 % či vyšší.

Ekologické informace: Látka/směs neobsahuje složky, o nichž se má za to, že mají vlastnosti vyvolávající narušení endokrinní činnosti podle REACH článku 57(f) nebo nařízení Komise (EU) s delegovanou pravomocí 2017/2100 nebo nařízení Komise (EU) 2018/605 při hladinách 0,1 % nebo vyšších.

Toxikologické informace: Látka/směs neobsahuje složky, o nichž se má za to, že mají vlastnosti vyvolávající narušení endokrinní činnosti podle REACH článku 57(f) nebo nařízení Komise (EU) s delegovanou pravomocí 2017/2100 nebo nařízení Komise (EU) 2018/605 při hladinách 0,1 % nebo vyšších.

ODDÍL 3: Složení/informace o složkách

3.1 Látky

Název látky : kyselina salicylová



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Č. indexu : 607-732-00-5
Č.ES : 200-712-3
Chemická podstata : Jednosložková látka organický

Složky

| Chemický název | Č. CAS Č.ES | Koncentrace (% w/w) | M-faktorem, SCL, ATE |
|---------------------|----------------------|------------------------|--|
| kyselina salicylová | 69-72-7 200-712-3 | >= 90 - <= 100 | Odhad akutní toxicity Akutní orální toxicitu: 891 mg/kg 891 mg/kg |

ODDÍL 4: Pokyny pro první pomoc

4.1 Popis první pomoci

Všeobecné pokyny : Poskytovatelé první pomoci by měli věnovat pozornost vlastní ochraně a nosit doporučený ochranný oděv.
Postiženého vynešte z nebezpečného prostoru.
Při přetrvávajících potížích přivolejte lékaře.
Je-li postižený v bezvědomí, uložte jej do bezpečné polohy a zajistěte lékařskou pomoc.
Osobám v bezvědomí nikdy nepodávejte nic ústy.
Udržujte postiženého v teple a klidu.
Ošetřujícímu lékaři předložte tento bezpečnostní list.

Při vdechnutí : Je-li postižený v bezvědomí, uložte jej do bezpečné polohy a zajistěte lékařskou pomoc.
Při přetrvávajících potížích přivolejte lékaře.

Při nadýchání dopravte postiženého na čerstvý vzduch.
Při potížích s dýcháním podejte kyslík.

Při styku s kůží : V případě kontaktu okamžitě oplachujte kůži velkým množstvím vody a mýdlem.

Při styku s očima : Chraňte nezraněné oko.
Odstraňte kontaktní čočky.
Ihned vyplachujte velkým množstvím vody, a to i pod víčky.
Široce otevřete oči a vyplachujte.
Malá množství vniknuvší do očí mohou vyvolat nevratné poškození epitelu a oslepnutí.
Postiženého ihned dopravte do nemocnice.
Oči vyplachujte i během přepravy do nemocnice.

Při požití : Vypláchněte ústa vodou.
Dejte vypít 1 až 2 sklenice vody.



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Při požití NEVYVOLÁVEJTE zvracení, pokud to nenařídí lékařský personál.
Nepodávejte mléko ani alkoholické nápoje.

4.2 Nejdůležitější akutní a opožděné symptomy a účinky

Symptomy : Vážné poškození očí / podráždění očí
Nevolnost
Nevolnost
Zvracení
Průjem
Závrat
Bolesti hlavy

Křeče
závat
zmatenost
Kolaps krevního oběhu

Rizika : Slepota

4.3 Pokyn týkající se okamžité lékařské pomoci a zvláštního ošetření

Ošetření : Dekontaminace
Elementární pomoc
Symptomatické ošetření.
Symptomy otravy se mohou projevit až po několika hodinách.
Nutný dohled lékaře nejméně po dobu 48 hodin.

ODDÍL 5: Opatření pro hašení požáru

5.1 Hasiva

Vhodná hasiva : Použijte proud vody, pěnu vhodnou k hašení alkoholu, práškový hasicí prostředek nebo oxid uhličitý.

Nevhodná hasiva : Plný proud vody

5.2 Zvláštní nebezpečnost vyplývající z látky nebo směsi

Specifická nebezpečí při hašení požáru : Zabraňte vzniku prachu; jemný prach rozptýlený v dostatečné koncentraci ve vzduchu v přítomnosti zdrojů zapálení je možným rizikem výbuchu.

Nebezpečné produkty spalování : Viz bod 10.

5.3 Pokyny pro hasiče

Zvláštní ochranné prostředky : Použijte úplný ochranný oděv a nezávislý dýchací přístroj pro hasiče

Další informace : Běžná opatření při chemických požárech.

ODDÍL 6: Opatření v případě náhodného úniku



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6.1 Opatření na ochranu osob, ochranné prostředky a nouzové postupy

Opatření na ochranu osob : Používejte vhodné ochranné prostředky.
Osoby odveďte do bezpečí.
Je nutno vyloučit vznik prachu.
Zajistěte přiměřené větrání.
Nevdechujte prach.
Odstraňte všechny zápalné zdroje.
Nahlédněte do odstavců 7 a 8 obsahujících ochranná opatření.
Odkazuje se na oddíl 15 týkající se národních předpisů.

6.2 Opatření na ochranu životního prostředí

Opatření na ochranu životního prostředí : Zabraňte styku s půdou, povrchovými nebo spodními vodami.
Nenechtejте vniknout do kanalizace.
Pokud produkt kontaminoval řeku nebo jezero nebo vnikl do kanalizace, informujte příslušné úřady.
Zabraňte dalšímu unikání nebo rozlití, není-li to spojeno s rizikem.

6.3 Metody a materiál pro omezení úniku a pro čištění

Čistící metody : Mechanicky seberte.
Opatrně seberte a bez prášení uložte mezi domovní odpad.
Pečlivě očistěte znečištěné předměty a podlahu za dodržení předpisů o ochraně životního prostředí.
Uložte do vhodné uzavřené nádoby.

6.4 Odkaz na jiné oddíly

Pokyny k likvidaci viz bod 13.

ODDÍL 7: Zacházení a skladování

7.1 Opatření pro bezpečné zacházení

Pokyny pro bezpečné zacházení : Uchovávejte obal těsně uzavřený.
V pracovních prostorách je nutno zajistit dostatečnou výměnu vzduchu a/nebo odsávání.
Tento produkt smí používat pouze náležitě zaškolený personál.

Pokyny k ochraně proti požáru a výbuchu : Látka / produkt je hořlavá/ý. Nebezpečí výbuchu prachu. Směsi par se vzduchem jsou při silnějším zahřátí výbušné. Přichystat hasicí přístroj vybavení. Neponechávejte v blízkosti zdrojů tepla a ohně. Zabezpečte proti vzniku elektrostatických nábojů. Zamezte hromadění prachu v uzavřeném prostoru.

Hygienická opatření : Všeobecná hygienická opatření. Osobní ochranné prostředky ukládejte na čistém místě mimo pracovní plochu. Zabraňte potřísnění pokožky a oděvu a vniknutí do očí. Nejezte, nepijte a nekuřte při používání. Uchovávejte odděleně od potravin, nápojů a krmiv. Před pracovní přestávkou a ihned po skončení manipulace s výrobkem si umyjte ruce. Kontaminovaný pracovní oděv by se neměl dostat mimo pracovní prostory.



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Kontaminovaný oděv a rukavice před novým použitím sejměte a vyperte včetně vnitřní strany. Pravidelně čistěte přístroje, pracovní prostory a obklady.

7.2 Podmínky pro bezpečné skladování látek a směsí včetně neslučitelných látek a směsí

Požadavky na skladovací prostory a kontejnery : Nádoby musí být dobře uzavřeny a skladovány na suchém, chladném a dobře větraném místě. Dodržujte varovné pokyny na štítcích. Skladujte v souladu s příslušnými národními předpisy.

Další informace o skladovacích podmínkách : Obsah chraňte proti světlu.

Pokyny pro skladování : Viz bod 10.

Další informace ke stabilitě při skladování : Chraňte před mrazem, teplem a slunečním světlem.

7.3 Specifické konečné / specifická konečná použití

Specifické (specifická) použití : viz odstavec 1

ODDÍL 8: Omezování expozice / osobní ochranné prostředky

8.1 Kontrolní parametry

Neobsahuje žádné látky s mezními hodnotami expozice na pracovišti.

Odvozená hladina bez účinku (DNEL) podle Nařízení (ES) č. 1907/2006:

| Název látky | Oblast použití | Cesty expozice | Možné ovlivnění zdraví | Hodnota |
|---------------------|----------------|----------------|-------------------------------|-------------------------|
| kyselina salicylová | Pracovníci | Vdechnutí | Dlouhodobé - systémové účinky | 12 mg/m ³ |
| | Pracovníci | Vdechnutí | Dlouhodobé - lokální účinky | 5 mg/m ³ |
| | Pracovníci | Styk s kůží | Dlouhodobé - systémové účinky | 2,3 mg/kg těl.hmot./den |
| | Spotřebitelé | Vdechnutí | Dlouhodobé - systémové účinky | 4 mg/m ³ |
| | Spotřebitelé | Styk s kůží | Dlouhodobé - systémové účinky | 1 mg/kg těl.hmot./den |
| | Spotřebitelé | Požití | Dlouhodobé - systémové účinky | 1 mg/kg těl.hmot./den |
| | Spotřebitelé | Požití | Akutní - systémové účinky | 4 mg/kg těl.hmot./den |

Odhad koncentrace, při které nedochází k nepříznivým účinkům (PNEC) podle Nařízení (ES) č. 1907/2006:

| Název látky | Životní prostředí | Hodnota |
|---------------------|------------------------|-----------|
| kyselina salicylová | Sladká voda | 0,2 mg/l |
| | Mořská voda | 0,02 mg/l |
| | Čistírna odpadních vod | 162 mg/l |



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| | Sladkovodní sediment | 1,42 mg/kg hmotnosti sušiny |
| | Mořský sediment | 0,14 mg/kg hmotnosti sušiny |
| | Půda | 0,17 mg/kg hmotnosti sušiny |

8.2 Omezování expozice

Osobní ochranné prostředky

Ochrana očí a obličeje : Dobře těsnící ochranné brýle

Ochrana rukou

Materiál : Chloropren
Doba průniku : 480 min
Tloušťka rukavic : $\geq 0,6$ mm

Materiál : Nitrilový kaučuk
Doba průniku : 480 min
Tloušťka rukavic : $\geq 0,11$ mm

Materiál : Přírodní kaučuk
Doba průniku : 480 min
Tloušťka rukavic : $\geq 0,5$ mm

Materiál : butylkaučuk
Doba průniku : 480 min
Tloušťka rukavic : $\geq 0,5$ mm

Materiál : Fluorovaný kaučuk
Doba průniku : 480 min
Tloušťka rukavic : $\geq 0,7$ mm

Poznámky : Věnujte pozornost informacím výrobce o propustnosti a době průniku a specifickým podmínkám na pracovišti (mechanické namáhání, doba styku). Volba vhodných rukavic závisí nejen na jejich materiálu, nýbrž i na jiných jakostních parametrech, které se u jednotlivých výrobců liší. Vhodnost pro příslušné pracoviště by měla být prodiskutována s výrobcí ochranných rukavic. Před sejmutím omyjte rukavice mýdlem a vodou. Uvědomte si, že při denním používání může být trvanlivost chemicky odolných rukavic v důsledku řady vnějších vlivů (např. teploty) značně kratší než hodnota naměřená podle EN 374. Zvolené ochranné rukavice musí vyhovovat specifikacím nařízení EU 2016/425 a z něj odvozené normě EN 374.

Ochrana kůže a těla : Neprostupný ochranný oděv
Zvolte osobní ochranné prostředky podle množství a koncentrace nebezpečné látky na pracovišti.



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| Ochrana dýchacích cest | : Při užívání v uzavřených systémech nebo při dobrém větrání prostoru není třeba. Při prášení nebo vzniku aerosolu použijte dýchací masku s vhodným filtrem. Filtreační třída dýchacího přístroje musí vyhovovat očekávané maximální koncentraci kontaminantu (plyn/páry/aerosol/částice), která může vzniknout při zacházení s produktem. Je-li tato koncentrace překročena, musí být použit nezávislý dýchací přístroj. |
| Filtr typu | : Typ částic (P) |
| Ochranná opatření | : Dodržujte bezpečnostní předpisy pro manipulaci s chemikáliemi. Ujistěte se, že zařízení na výplach očí a bezpečnostní sprcha se nacházejí blízko pracoviště. |

ODDÍL 9: Fyzikální a chemické vlastnosti

9.1 Informace o základních fyzikálních a chemických vlastnostech

- | | |
|---|--------------------------------------|
| Fyzický stav | : Krystalický prášek |
| Barva | : bílý |
| Zápach | : bez zápachu |
| Prahová hodnota zápachu | : Údaje nejsou k dispozici |
| Bod tání/rozmezí bodu tání | : 157 - 160 °C |
| Bod varu/rozmezí bodu varu | : 256 °C |
| Horní mez výbušnosti / Horní mez hořlavosti | : Údaje nejsou k dispozici |
| Dolní mez výbušnosti / Dolní mez hořlavosti | : Údaje nejsou k dispozici |
| Bod vzplanutí | : 157 °C Metoda: uzavřený kelímek |
| Teplota samovznícení | : 549 °C |
| Teplota rozkladu | : Údaje nejsou k dispozici |
| pH | : 2,4 (20 °C) Koncentrace: 2 % |
| Viskozita | |
| Dynamická viskozita | : Nevztahuje se |
| Kinematická viskozita | : Nevztahuje se |



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| Rozpustnost | |
| Rozpustnost ve vodě | : 2 g/l (20 °C) |
| Rozpustnost v jiných rozpouštědlech | : Rozpouštědlo: Ether rozpustná látka Rozpouštědlo: Aceton rozpustná látka Rozpouštědlo: Ethanol rozpustná látka Rozpouštědlo: Chloroform rozpustná látka |
| Rozdělovací koeficient: n-oktanol/voda | : log Pow: 2,25 (25 °C) Metoda: Směrnice OECD 117 pro testování |
| Tlak páry | : 0,0002 hPa (25 °C) |
| Relativní hustota | : Údaje nejsou k dispozici |
| Hustota | : 1,44 g/cm ³ (20 °C) |
| Relativní hustota par | : 4,8 (vzduch = 1.0) |

9.2 Další informace

| | |
|----------------------|----------------------------|
| Výbušniny | : Nevýbušný |
| Oxidační vlastnosti | : Nevztahuje se |
| Rychlost koroze kovů | : Údaje nejsou k dispozici |
| Sublimační bod | : 76 °C |
| Molekulová hmotnost | : 138,12 g/mol |

ODDÍL 10: Stálost a reaktivita

10.1 Reaktivita

Při dodržení určeného způsobu skladování a používání nedochází k rozkladu.

10.2 Chemická stabilita

Za normálních podmínek stabilní.
Rozkládá se vlivem světla.

10.3 Možnost nebezpečných reakcí

Nebezpečné reakce : Prach může tvořit se vzduchem výbušnou směs.
Směsi par se vzduchem jsou při silnějším zahřátí výbušné.

10.4 Podmínky, kterým je třeba zabránit



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Podmínky, kterým je třeba zabránit : Vystavení vlivu světla.
Horko, plameny a jiskry.
Nepřehřívejte, aby nedošlo k termickému rozkladu.

10.5 Neslučitelné materiály

Materiály, kterých je třeba se vyvarovat : Oxidační činidla
Silné kyseliny a silné báze
jod
Fluor
Železo

10.6 Nebezpečné produkty rozkladu

Při zahřívání nebo požáru se může uvolňovat toxický plyn.
Oxid uhelnatý
Oxid uhličitý (CO₂)

ODDÍL 11: Toxikologické informace

11.1 Informace o třídách nebezpečnosti vymezených v nařízení (ES) č. 1272/2008

Akutní toxicita

Složky:

kyselina salicylová:

Akutní orální toxicitu : LD50 (Potkan, samčí (mužský)): 891 mg/kg
Metoda: Směrnice OECD 401 pro testování

Akutní inhalační toxicitu : Poznámky: Údaje nejsou k dispozici

Akutní dermální toxicitu : LD50 (Králík): > 10.000 mg/kg
Metoda: Směrnice OECD 402 pro testování

Žiravost/dráždivost pro kůži

Složky:

kyselina salicylová:

Druh : Králík
Metoda : Směrnice OECD 404 pro testování
Výsledek : Nedráždí pokožku

Vážné poškození očí / podráždění očí

Složky:

kyselina salicylová:

Druh : Králík
Výsledek : Nevratné účinky na zrak



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Senzibilizace dýchacích cest / senzibilizace kůže

Složky:

kyselina salicylová:

| | |
|----------------|---|
| Typ testu | : Analýza vzorku lymfatické uzliny (LLNA) |
| Cesty expozice | : Styk s kůží |
| Druh | : Myš |
| Výsledek | : hraniční |
| Poznámky | : Průkaznost důkazů |

Hodnocení : Nezpůsobuje senzibilizaci kůže.

| | |
|----------------|----------------------------|
| Cesty expozice | : Vdechnutí |
| Poznámky | : Údaje nejsou k dispozici |

Mutagenita v zárodečných buňkách

Složky:

kyselina salicylová:

Genotoxicitě in vitro : Typ testu: test reverzní mutace
Testovací systém: Salmonella typhimurium
Metabolická aktivace: s nebo bez aktivace metabolismu
Metoda: Směrnice OECD 471 pro testování
Výsledek: negativní

Typ testu: Test na chromozomální aberaci in vitro
Testovací systém: ovariální buňky čínského křečka
Metabolická aktivace: s nebo bez aktivace metabolismu
Metoda: Směrnice OECD 473 pro testování
Výsledek: negativní

Typ testu: Test genové mutace savčích buněk in vitro
Testovací systém: buňky myšního lymfomu
Metabolická aktivace: s nebo bez aktivace metabolismu
Metoda: Směrnice OECD 476 pro testování
Výsledek: negativní

Genotoxicitě in vivo : Typ testu: savčí buňky
Druh: Myš (samčí (mužský))
Typ buňky: Kostní dřev
Způsob provedení: Orálně
Metoda: Směrnice OECD 475 pro testování
Výsledek: negativní

Karcinogenita

Výrobek:

Poznámky : IARC (International Agency for Research on Cancer) : Žádná ze složek obsažených v tomto produktu nebyla IARC identifikována při hladinách větších nebo rovných 0,1% jako pravdě-



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podobný, možný nebo potvrzený karcinogen.

Složky:

kyselina salicylová:

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| Druh | : Potkan, samec a samice |
| Způsob provedení | : Orálně |
| NOAEL | : 500 mg/kg těl.hmot./den |
| Výsledek | : Při pokusech se zvířaty nebyly pozorovány žádné karcinogenní účinky. |
| Poznámky | : Read across |

Toxicita pro reprodukci

Složky:

kyselina salicylová:

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| Účinky na plodnost | : Typ testu: Třígenerační zkouška Druh: Potkan, samec a samice Způsob provedení: Orálně Všeobecná toxicita rodičů: NOAEL: 250 mg/kg těl.hmot./den Všeobecná toxicita F2: NOAEL: 75 mg/kg těl.hmot./den Plodnost: NOAEL: 250 mg/kg těl.hmot./den Metoda: Směrnice OECD 416 pro testování Výsledek: Netoxický pro reprodukční schopnost Poznámky: Read across |
|--------------------|---|

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| Účinky na vývoj plodu | : Druh: Potkan Kmen: Sprague-Dawley Způsob provedení: Orálně Všeobecná toxicita matek: NOAEL: 150 mg/kg těl.hmot./den Vývojová toxicita: NOAEL Parent: 75 mg/kg těl.hmot./den Embryofetální toxicita: NOAEL: 75 mg/kg těl.hmot./den Metoda: Směrnice OECD 414 pro testování Výsledek: Vývojová toxicita |
|-----------------------|--|

| | |
|--|---|
| Toxicita pro reprodukci - Hodnocení | : Určitý důkaz nepříznivých účinků na vývoj, založený na pokusech na zvířatech. |
|--|---|

Podezření na poškození plodu v těle matky.

Toxicita pro specifické cílové orgány – jednorázová expozice

Složky:

kyselina salicylová:

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| Poznámky | : Údaje nejsou k dispozici |
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Toxicita pro specifické cílové orgány – opakovaná expozice

Složky:

kyselina salicylová:

Poznámky : Údaje nejsou k dispozici

Toxicita po opakovaných dávkách

Složky:

kyselina salicylová:

Druh : Potkan, samec a samice
NOAEL : 50 mg/kg těl.hmot./den
Způsob provedení : Orálně
Poznámky : Read across

Druh : Potkan, samičí (ženský)
NOEC : 700 mg/m³
Způsob provedení : Vdechnutí
Metoda : Směrnice OECD 412 pro testování
Poznámky : Read across

Aspirační toxicita

Výrobek:

Nevztahuje se

11.2 Informace o další nebezpečnosti

Vlastnosti vyvolávající narušení činnosti endokrinního systému

Výrobek:

Hodnocení : Látka/směs neobsahuje složky, o nichž se má za to, že mají vlastnosti vyvolávající narušení endokrinní činnosti podle REACH článek 57(f) nebo nařízení Komise (EU) s delegovanou pravomocí 2017/2100 nebo nařízení Komise (EU) 2018/605 při hladinách 0,1 % nebo vyšších.

ODDÍL 12: Ekologické informace

12.1 Toxicita

Složky:

kyselina salicylová:

Toxicita pro ryby : LC50 (Pimephales promelas (střevle)): 1.380 mg/l
Cílový ukazatel: úmrtnost
Doba expozice: 96 h
Typ testu: průběžný test

Toxicita pro dafnie a jiné : EC50 (Daphnia magna (perloočka velká)): 870 mg/l



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| vodní bezobratlé | | Cílový ukazatel: Imobilizace Doba expozice: 48 h Typ testu: statický test Metoda: Směrnice OECD 202 pro testování |
| Toxicita pro řasy/vodní rostliny | : | EC50 (Desmodesmus subspicatus (zelené řasy)): > 100 mg/l Doba expozice: 72 h Metoda: Směrnice OECD 201 pro testování |
| Toxicita pro mikroorganismy | : | EC50 (Pseudomonas putida (Bakterie)): 380 mg/l Cílový ukazatel: Inhibice růstu Doba expozice: 16 h Typ testu: statický test Poznámky: Read across |
| Toxicita pro ryby (Chronická toxicita) | : | Poznámky: Údaje nejsou k dispozici |
| Toxicita pro dafnie a jiné vodní bezobratlé (Chronická toxicita) | : | NOEC: 10 mg/l Cílový ukazatel: Reprodukce Doba expozice: 21 d Druh: Daphnia magna (perloočka velká) |

12.2 Perzistence a rozložitelnost

Složky:

kyselina salicylová:

| | | |
|---------------------------|---|--|
| Biologická odbouratelnost | : | Typ testu: Test na biologickou odbouratelnost Inokulum: aktivovaný kal, neupravený Výsledek: Látka snadno biologicky odbouratelná. Biologické odbourávání: > 90 % Doba expozice: 4 d Metoda: Nařízení (ES) č. 440/2008, příloha C.9 |
| | | Typ testu: aerobní Výsledek: Látka snadno biologicky odbouratelná. Biologické odbourávání: 100 % Doba expozice: 14 d Metoda: Směrnice OECD 301 C pro testování |

12.3 Bioakumulační potenciál

Složky:

kyselina salicylová:

| | | |
|--|---|---|
| Bioakumulace | : | Poznámky: Nelze očekávat žádnou biologickou akumulaci (log Pow <= 4). |
| Rozdělovací koeficient: n-oktanol/voda | : | log Pow: 2,25 (25 °C) Metoda: Směrnice OECD 117 pro testování |



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12.4 Mobilita v půdě

Údaje nejsou k dispozici

12.5 Výsledky posouzení PBT a vPvB

Výrobek:

Hodnocení : Látka/směs neobsahuje složky považované buď za perzistentní, bioakumulativní a toxické (PBT), nebo za vysoce perzistentní a vysoce bioakumulativní (vPvB) v koncentraci 0,1 % či vyšší.

Složky:

kyselina salicylová:

Hodnocení : Látka není považována za perzistentní, bioakumulativní ani toxickou (PBT).
: Látka není považována za vysoce perzistentní ani vysoce bioakumulativní (vPvB).

12.6 Vlastnosti vyvolávající narušení činnosti endokrinního systému

Výrobek:

Hodnocení : Látka/směs neobsahuje složky, o nichž se má za to, že mají vlastnosti vyvolávající narušení endokrinní činnosti podle REACH článek 57(f) nebo nařízení Komise (EU) s delegovanou pravomocí 2017/2100 nebo nařízení Komise (EU) 2018/605 při hladinách 0,1 % nebo vyšších.

12.7 Jiné nepříznivé účinky

Údaje nejsou k dispozici

ODDÍL 13: Pokyny pro odstraňování

13.1 Metody nakládání s odpady

Výrobek : Nezneškodňujte společně s domácím odpadem.
Neodstraňujte zbytky vhozením do kanalizace.
Neznečistěte stojící nebo tekoucí vody chemikálií nebo použitou nádobou.
Zbytková množství a nezregenerovatelné roztoky předejte osvědčené likvidační firmě.

Kódy odpadů by měl přidělovat uživatel na základě použité aplikace výrobku.
Podle Evropského katalogu odpadů nejsou kódy odpadů charakteristické pro produkt, nýbrž pro jeho použití.

Znečištěné obaly : Vyprázdněte zbytky.
Nedokonale prázdné obaly je nutno zneškodnit jako nevyužitý výrobek.
Prázdné nádoby znovu nepoužívejte.
Prázdné obaly by měly být předány firmě s oprávněním k ma-



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nipulaci s odpady k recyklaci nebo zneškodnění.

ODDÍL 14: Informace pro přepravu

14.1 UN číslo nebo ID číslo

| | |
|------|---|
| ADN | : Nepodléhá předpisům jako nebezpečné zboží |
| ADR | : Nepodléhá předpisům jako nebezpečné zboží |
| RID | : Nepodléhá předpisům jako nebezpečné zboží |
| IMDG | : Nepodléhá předpisům jako nebezpečné zboží |
| IATA | : Nepodléhá předpisům jako nebezpečné zboží |

14.2 Oficiální (OSN) pojmenování pro přepravu

| | |
|------|---|
| ADN | : Nepodléhá předpisům jako nebezpečné zboží |
| ADR | : Nepodléhá předpisům jako nebezpečné zboží |
| RID | : Nepodléhá předpisům jako nebezpečné zboží |
| IMDG | : Nepodléhá předpisům jako nebezpečné zboží |
| IATA | : Nepodléhá předpisům jako nebezpečné zboží |

14.3 Třída/ třídy nebezpečnosti pro přepravu

| | |
|------|---|
| ADN | : Nepodléhá předpisům jako nebezpečné zboží |
| ADR | : Nepodléhá předpisům jako nebezpečné zboží |
| RID | : Nepodléhá předpisům jako nebezpečné zboží |
| IMDG | : Nepodléhá předpisům jako nebezpečné zboží |
| IATA | : Nepodléhá předpisům jako nebezpečné zboží |

14.4 Obalová skupina

| | |
|------------------|---|
| ADN | : Nepodléhá předpisům jako nebezpečné zboží |
| ADR | : Nepodléhá předpisům jako nebezpečné zboží |
| RID | : Nepodléhá předpisům jako nebezpečné zboží |
| IMDG | : Nepodléhá předpisům jako nebezpečné zboží |
| IATA (Náklad) | : Nepodléhá předpisům jako nebezpečné zboží |
| IATA (Cestující) | : Nepodléhá předpisům jako nebezpečné zboží |

14.5 Nebezpečnost pro životní prostředí

Nepodléhá předpisům jako nebezpečné zboží

14.6 Zvláštní bezpečnostní opatření pro uživatele

Nevztahuje se

14.7 Námořní hromadná přeprava podle nástrojů IMO

Nevztahuje se na tento produkt, pokud je v dodávaném stavu.



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ODDÍL 15: Informace o předpisech

15.1 Předpisy týkající se bezpečnosti, zdraví a životního prostředí/ specifické právní předpisy týkající se látky nebo směsi

- | | | |
|---|---|---|
| REACH - Omezení výroby, uvádění na trh a používání některých nebezpečných látek, směsí a předmětů (Příloha XVII) | : | Je třeba zvážit omezující podmínky pro následující položky: Číslo na seznamu 75 Máte-li v úmyslu použít tento produkt jako inkoust na tetování, kontaktujte svého prodejce. |
| Seznamy toxických chemikálií a prekurzorů podle mezinárodní Úmluvy o zákazu chemických zbraní (CWC) | : | Nevztahuje se |
| REACH - Seznam látek vzbuzujících mimořádné obavy podléhajících povolení (článek 59). | : | Nevztahuje se |
| Rady (ES) č. 1005/2009 o látkách, které poškozují ozonovou vrstvu | : | Nevztahuje se |
| Nařízení (EU) 2019/1021 o perzistentních organických znečišťujících látkách (přepřelované znění) | : | Nevztahuje se |
| Nařízení Evropského parlamentu a Rady (ES) č. 649/2012 o vývozu a dovozu nebezpečných chemických látek | : | Nevztahuje se |
| REACH - Seznam látek podléhajících povolení (Příloha XIV) | : | Nevztahuje se |
| Seveso III: Směrnice Evropského parlamentu a Rady 2012/18/EU o kontrole nebezpečí závažných havárií s přítomností nebezpečných látek. | : | Nevztahuje se |
| Těkavé organické sloučeniny | : | Směrnice Evropského parlamentu a Rady 2010/75/EU ze dne 24. listopadu 2010 o průmyslových emisích (integrování prevence a omezování znečištění) Nevztahuje se |

Jiné předpisy:

Nařízení Evropského parlamentu a Rady (ES) č. 1907/2006 o registraci, hodnocení, povolování a omezování chemických látek (REACH)
Nařízení Evropského parlamentu a Rady (ES) č. 1272/2008 o klasifikaci, označování a balení látek a směsí (CLP)
Nařízení Evropského parlamentu a Rady (ES) č. 286/2011, kterým se pro účely přizpůsobení technickému pokroku mění nařízení Evropského parlamentu a rady (ES) č. 1272/2008 o klasifikaci, označování a balení látek a směsí (CLP)
Zákon č. 350/2011 Sb., o chemických látkách a chemických směsích, v platném znění
Zákon č. 258/2000 Sb. o ochraně veřejného zdraví, v platném znění
Zákon č. 262/2006 Sb., zákoník práce, v platném znění



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Zákon č. 201/2012 Sb. o ochraně ovzduší, v platném znění
Zákon č. 254/2001 Sb. o vodách, v platném znění
Nařízení vlády ČR č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví zaměstnanců při práci, v platném znění
Zákon č. 541/2020 Sb., o odpadech

Dodržujte směrnici 92/85/ES o zlepšení bezpečnosti a ochrany zdraví při práci zaměstnankyň těhotných či po porodu nebo případnou vnitrostátní legislativu, pokud je přísnější.

15.2 Posouzení chemické bezpečnosti

U této látky bylo provedeno hodnocení chemické bezpečnosti.

ODDÍL 16: Další informace

Plný text jiných zkratk

ADN - Evropská dohoda o mezinárodní říční přepravě nebezpečných věcí; ADR - Dohoda o mezinárodní silniční přepravě nebezpečných věcí; AIIIC - Australský seznam průmyslových chemických látek; ASTM - Americká společnost pro testování materiálů; bw - Tělesná hmotnost; CLP - Nařízení o klasifikaci v označování balení; Nařízení (ES) č. 1272/2008; CMR - Karcinogen, mutagen či reprodukčně toxická látka; DIN - Norma z německého institutu pro normalizaci; DSL - Národní seznam látek (Kanada); ECHA - Evropská agentura pro chemické látky; EC-Number - Číslo Evropského společenství; ECx - Koncentrace při odpovědi x %; ELx - Intenzita zatížení při odpovědi x %; EmS - Havarijní plán; ENCS - Seznam stávajících a nových chemických látek (Japonsko); ErCx - Koncentrace při odpovědi ve formě růstu x %; GHS - Globálně harmonizovaný systém; GLP - Správná laboratorní praxe; IARC - Mezinárodní agentura pro výzkum rakoviny; IATA - Mezinárodní asociace leteckých dopravců; IBC - Mezinárodní předpis pro stavbu a vybavení lodí hromadně přepravujících nebezpečné chemikálie; IC50 - Polovina maximální inhibiční koncentrace; ICAO - Mezinárodní organizace civilního letectví; IECSC - Seznam stávajících chemických látek v Číně; IMDG - Mezinárodní námořní doprava nebezpečného zboží; IMO - Mezinárodní organizace pro námořní přepravu; ISHL - Zákon o bezpečnosti a ochraně zdraví v průmyslu (Japonsko); ISO - Mezinárodní organizace pro normalizaci; KECI - Seznam existujících chemických látek - Korea; LC50 - Smrtelná koncentrace pro 50 % populace v testu; LD50 - Smrtelná dávka pro 50 % populace v testu (medián smrtelné dávky); MARPOL - Mezinárodní úmluva o zabránění znečišťování z lodí; n.o.s. - Jinak nespecifikováno; NO(A)EC - Koncentrace bez pozorovaného nepříznivého účinku; NO(A)EL - Dávka bez pozorovaného nepříznivého účinku; NOELR - Intenzita zatížení bez pozorovaného nepříznivého účinku; NZIoC - Novozélandský seznam chemických látek; OECD - Organizace pro hospodářskou spolupráci a rozvoj; OPPTS - Úřad pro chemickou bezpečnost a prevenci znečištění; PBT - Perzistentní, bioakumulativní a toxická látka; PICCS - Filipínský seznam chemikálií a chemických látek; (Q)SAR - (Kvantitativní) vztah mezi strukturou a aktivitou; REACH - Nařízení Evropského parlamentu a Rady o registraci, hodnocení, povolování a omezení chemických látek (ES) č. 1907/2006; RID - Předpisy o mezinárodní železniční přepravě nebezpečného zboží; SADT - Teplota samourychlujícího se rozkladu; SDS - Bezpečnostní list; SVHC - látka vzbuzující mimořádné obavy; TCSI - Tchajwanský seznam chemických látek; TECI - Seznam existujících chemických látek - Thajsko; TRGS - Technická pravidla pro nebezpečné látky; TSCA - Zákon o kontrole toxických látek (Spojené státy); UN - Organizace spojených národů; vPvB - Vysoce perzistentní a vysoce bioakumulativní

Další informace

Další informace : Tento bezpečnostní list obsahuje pouze informace vztahující se k bezpečnosti a nenahrazuje informaci o výrobku ani jeho specifikaci.



Salicylic acid

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Zdroje nejdůležitějších údajů : ECHA Classification and Labelling - echa.europa.eu/de/view-article/-/journal_content/07005f81-abf1-4081-973b-6c7c526c39df
ECHA Information on Registered Substances.
<http://apps.echa.europa.eu/registered/registered-sub.aspx>
PubChem <https://pubchem.ncbi.nlm.nih.gov/>
ZDARMA datamáze látek <http://gestis.itrust.de>
Manager chemikálií, KCL-Software pro ochranu rukou

Údaje v tomto bezpečnostním listu odpovídají našim nejlepším znalostem, informacím a přesvědčení v době jeho vydání. Uvedené informace jsou určeny jen jako vodítko pro bezpečnou manipulaci s produktem, jeho použití, skladování, zpracování, přepravu, likvidaci a uvolnění a nemají být považovány za záruku nebo specifikaci jakosti. Informace se vztahují pouze na jmenovaný specifický materiál a mohou pozbyt platnosti, bude-li použit v kombinaci s jakýmkoli jinými materiály nebo v jakýchkoli procesech, pokud to nebude jmenovitě uvedeno v textu.

CZ / CS

Annex to the safety data sheet

| Product exposure scenario(s) | |
|------------------------------|--|
| ES Type | ES title |
| Worker | Use as an intermediate |
| Worker | Use for the manufacture of resins |
| Worker | Use for the separation of salts |
| Worker | Formulation & (re)packing of substances and mixtures |
| Consumer | Cosmetics, personal care products |
| Worker | Use in Cleaning Agents |
| Consumer | Use in Cleaning Agents |

1. ES1 - Industrial; Use as an intermediate

1. ES1 - Industrial; Use as an intermediate

1.1. Title section

Use as an intermediate



Salicylic acid

Verze
3.1

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14.06.2023

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nostního listu):
300000016981

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ES Ref.: ES1
ES Type: Worker
Revision date: 01/02/2023

| Environment | | Use descriptors |
|-------------|--|-----------------|
| | Contributing scenario controlling environmental exposure | ERC6a |
| | Contributing scenario controlling environmental exposure | ERC6a |

| Worker | | Use descriptors |
|--------|---|-----------------|
| | Unloading of salicylic from large containers by bulk | PROC2 |
| | Unloading of salicylic from Big Bag | PROC8b |
| | Unloading of salicylic from 25 kg bags | PROC8b |
| | Contributing scenario controlling worker exposure | PROC9 |
| | Analysis of salicylic acid | PROC15 |
| | Synthesis of substances with salicylic acid as a raw material in closed and batch process | PROC1 |
| | Unloading of salicylic from large containers by bulk | PROC2 |
| | Synthesis of substances with salicylic acid as a raw material in closed and batch process | PROC3 |
| | Synthesis of substances with salicylic acid as a raw material in closed and batch process | PROC2 |
| | Synthesis of substances with salicylic acid as a raw material in closed and batch process | PROC3 |
| | Synthesis of substances with salicylic acid as a raw material in closed and batch process | PROC4 |

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6a)

| | |
|-------|---------------------|
| ERC6a | Use of intermediate |
|-------|---------------------|

| Product (article) characteristics | |
|---------------------------------------|-------|
| Physical form of product | Solid |
| Concentration of substance in product | 100 % |



Salicylic acid

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| Amount used, frequency and duration of use (or from service life) | |
|---|--------------------|
| Fraction of tonnage for application: | 0.0588 |
| Regional tonnage of the substance: | 100 % |
| Fraction of the main local source | 1 (Site Rhodia) |
| Annual amount per site | ≤ 10600 tonnes/day |
| Daily amount per site | ≤ 35330 kg/day |
| Continuous use/release, Emission days | 300 days/yr |

| Technical and organisational conditions and measures | |
|--|--|
| Water : Physicochemical treatment: removal of sludge and wastes which are incinerated. Biological treatment with a flow rate of 4 700 m ³ /d. The effluent of this on-site STP is released into the Rhône with a minimum flow rate of 400 m ³ /s | |
| Air : No specific measures identified | |
| soil : No specific measures identified | |
| Do not apply industrial sludge to natural soils. Can be incinerated according to local regulations | |
| Conditions and measures related to sewage treatment plant | |
| Municipal sewage treatment is not assumed. | |

| Conditions and measures related to treatment of waste (including article waste) | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | |
|---|-----------------------------------|
| Seawater : | |
| Not applicable as there is no release | (Site Rhodia) |
| Freshwater : | |
| Local freshwater dilution factor: | 7354 (Rhônes) |
| Flow rate of receiving water at least: | 400 m ³ /s (Rhônes) |

1.2.2. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6a)

| | |
|-------|---------------------|
| ERC6a | Use of intermediate |
|-------|---------------------|



Salicylic acid

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| Product (article) characteristics | |
|---------------------------------------|-------|
| Physical form of product | Solid |
| Concentration of substance in product | 100 % |

| Amount used, frequency and duration of use (or from service life) | |
|---|--|
| Regional tonnage of the substance: | 100 % |
| Fraction of the main local source | 0.23 |
| Maximum local emission to waste water: | 27.6 kg/day (calculated for a limit reject that guarantees control of risk) |
| Continuous use/release, Emission days | 300 days/yr |

| Technical and organisational conditions and measures | |
|---|--|
| Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. | |

| Conditions and measures related to sewage treatment plant | |
|--|------------------------|
| Municipal Sewage Treatment Plant. Assumed domestic sewage treatment plant flow | 2000 m ³ /d |

| Conditions and measures related to treatment of waste (including article waste) | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | |
|---|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

1.2.3. Control of worker exposure: Unloading of salicylic from large containers by bulk (PROC2)

| | |
|------|--|
| POC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|------|--|

| Product (article) characteristics | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|--|
|--|--|



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Technical and organisational conditions and measures

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor

1.2.4. Control of worker exposure: Unloading of salicylic from Big Bag (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes
repeated exposure

Technical and organisational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Local exhaust ventilation - efficiency of at least

95 %
ECETOC TRA



Salicylic acid

| | | | |
|--------------|-----------------------------|--|---|
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|--------------|-----------------------------|--|---|

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor

1.2.5. Control of worker exposure: Unloading of salicylic from 25 kg bags (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 min - 1h. (repeated exposure)

Technical and organisational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Local exhaust ventilation - efficiency of at least

95 %
ECETOC TRA

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor

1.2.6. Control of worker exposure: Contributing scenario controlling worker exposure (PROC9)



Salicylic acid

| | | | |
|--------------|-----------------------------|--|---|
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|--------------|-----------------------------|--|---|

| | |
|-------|---|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Ensure dedicated sample points are provided | |
| Avoid dust formation. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure

| | |
|--------|--|
| indoor | |
|--------|--|

1.2.7. Control of worker exposure: Analysis of salicylic acid (PROC15)

| | |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|-------------------------|--|
| Avoid formation of dust | |
|-------------------------|--|



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

| | |
|---|--------------------|
| Handle in a fume cupboard or under extract ventilation. Efficiency : | 90 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure

| | |
|--------|--|
| indoor | |
|--------|--|

1.2.8. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC1)

| | |
|-------|--|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|-----------------------|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | >25 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------------|
| Exposure duration | 15 min - 1h. (repeated exposure) |
|-------------------|----------------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system | |
|---|--|

Technical and organisational conditions and measures

| | |
|---|--|
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |
|---|--|

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

1.2.9. Control of worker exposure: Unloading of salicylic from large containers by bulk (PROC2)

| | |
|-------|--|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|--|



Salicylic acid

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| Product (article) characteristics | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |

| Technical and organisational conditions and measures | |
|---|--------------------|
| Avoid formation of dust. Transfer via enclosed lines | |
| General ventilation. Efficiency : | 30 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

| Conditions and measures related to personal protection, hygiene and health evaluation | |
|---|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

| Other conditions affecting workers exposure | |
|---|--|
| outdoor | |

1.2.10. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

| | |
|-------|--|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|--|

| Product (article) characteristics | |
|---------------------------------------|-----------------------|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | >25 % |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|----------------------------------|
| Exposure duration | 15 min - 1h. (repeated exposure) |

| Technical and organisational conditions and measures | |
|--|--|
| Handle substance within a closed system | |



Salicylic acid

| | | | |
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|--------------|-----------------------------|--|---|

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor

1.2.11. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

>25 %

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 min - 1h. (repeated exposure)

Technical and organisational conditions and measures

Handle substance within a closed system

Outdoor use. General ventilation. Efficiency :

30 %

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

Use suitable eye protection

Other conditions affecting workers exposure

indoor



Salicylic acid

| | | | |
|-------|---------------|----------------------------------|-------------------------------------|
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1.2.12. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

| | |
|-------|--|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|-----------------------|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | >25 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------------|
| Exposure duration | 15 min - 1h. (repeated exposure) |
|-------------------|----------------------------------|

Technical and organisational conditions and measures

| | |
|---|--------------------|
| Handle substance within a closed system | |
| General ventilation. Efficiency : | 30 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure

| | |
|--------|--|
| indoor | |
|--------|--|

1.2.13. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC4)

| | |
|-------|---|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|-----------------------|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | >25 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------------|
| Exposure duration | 15 min - 1h. (repeated exposure) |
|-------------------|----------------------------------|

Technical and organisational conditions and measures



Salicylic acid

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| | |
|---|--|
| Handle substance within a closed system | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

| Conditions and measures related to personal protection, hygiene and health evaluation | |
|---|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6a)

| Information for contributing exposure scenario | | |
|---|-------|------------------------|
| Release fraction to air from process (initial release prior to RMM): | 0.05 | Default values: ERC 6a |
| Release fraction to wastewater from process (initial release prior to RMM): | 0.02 | Default values: ERC 6a |
| Release fraction to soil from process (initial release prior to RMM): | 0.001 | Default values: |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|------------------------|---------------------|-----------------|-------|-------------------|
| Freshwater | 0.00796 mg/l | 0.2 mg/l | 0.04 | EUSES v2.1 |
| Freshwater sediment | 0.0565 mg/kg dw t | 1.42 mg/kg dw t | 0.04 | EUSES v2.1 |
| Sewage treatment plant | 19 mg/l | 162 mg/l | 0.117 | EUSES v2.1 |

1.3.2. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6a)

| Information for contributing exposure scenario | | |
|---|--------|------------------------|
| Release fraction to air from process (initial release prior to RMM): | 0.05 | Default values: ERC 6a |
| Release fraction to wastewater from process (initial release prior to RMM): | 0.0066 | Default values: ERC 6a |
| Release fraction to soil from process (initial release prior to RMM): | 0.001 | Default values: |



Salicylic acid

Verze
3.1

Datum revize:
14.06.2023

Číslo BL (bezpeč-
nostního listu):
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Datum prvního vydání: 23.05.2017

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-------------------------|---------------------|-----------------|-------|-------------------|
| Freshw ater | 0.18 mg/l | 0.2 mg/l | 0.9 | EUSES v2.1 |
| Marine w ater | 0.018 mg/l | 0.02 mg/l | 0.9 | EUSES v2.1 |
| Freshw atersediment | 1.27 mg/kg dw t | 1.42 mg/kg dw t | 0.894 | EUSES v2.1 |
| Sew age treatment plant | 1.74 mg/l | 162 mg/l | 0.011 | EUSES v2.1 |

1.3.3. Worker exposure Unloading of salicylic from large containers by bulk (PROC2)

| Information for contributing exposure scenario | | | |
|--|------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw /day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |
| Long term - Local- Inhalation | 0.07 mg/m ³ | 0.014 | ECETOC TRA worker ,Default values: ,Inert dust |

1.3.4. Worker exposure Unloading of salicylic from Big Bag (PROC8b)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.069 mg/kg bw /day | 0.03 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.03 | |
| Long term - Local- Inhalation | 0.125 mg/m ³ | 0.025 | ECETOC TRA worker ,Default values: ,Inert dust |

1.3.5. Worker exposure Unloading of salicylic from 25 kg bags (PROC8b)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|--------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |



Salicylic acid

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| | | | |
|---------------------------------------|------------------------|------|--|
| Dermal - Long-term- systemic effects | 0.069 mg/kg bw /day | 0.03 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.03 | |
| Long term - Local - Inhalation | 0.25 mg/m ³ | 0.05 | ECETOC TRA worker ,Default values: ,Inert dust |

1.3.6. Worker exposure Contributing scenario controlling worker exposure (PROC9)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |
| Long term - Local - Inhalation | 0.032 mg/m ³ | 0.006 | Used ART model,Default values: ,Inert dust |

1.3.7. Worker exposure Analysis of salicylic acid (PROC15)

| Information for contributing exposure scenario | | | |
|--|------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.003 mg/kg bw /day | 0.001 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.001 | |
| Long term - Local - Inhalation | 0.05 mg/m ³ | 0.01 | ECETOC TRA worker ,Default values: ,Inert dust |

1.3.8. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC1)

| Information for contributing exposure scenario |
|--|
| Covered by PROC2 |

1.3.9. Worker exposure Unloading of salicylic from large containers by bulk (PROC2)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw /day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |

1.3.10. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

| Information for contributing exposure scenario |
|--|
|--|



Salicylic acid

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| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-------|-------------------|
| Dermal - Long-term- systemic effects | 0.03 mg/kg bw /day | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.013 | |

1.3.11. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC2)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|--------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw /day | 0.061 | |
| Sum RCR - Long-term- systemic effects | | 0.061 | |

1.3.12. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.03 mg/kg bw /day | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.013 | |

1.3.13. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC4)

| Information for contributing exposure scenario | | | |
|--|--|--|--|
| Covered by PROC3 + PROC8b | | | |

1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

1.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMVs or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

1.4.2. Health

| | |
|-------------------|--|
| Guidance - Health | Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|-------------------|--|

2. ES2 - Use for the manufacture of resins

2. ES2 - Industrial; Use for the manufacture of resins



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

2.1. Title section

Use for the manufacture of resins

| |
|-----------------|
| ES Ref.: ES2 |
| ES Type: Worker |

| Environment | | Use descriptors |
|-------------|--|-----------------|
| | Contributing scenario controlling environmental exposure | ERC6d |

| Worker | | Use descriptors |
|--------|--|-----------------|
| | Unloading of salicylic from 25 kg bags | PROC8b |
| | Unloading of salicylic from Big Bag | PROC8b |
| | Sampling of salicylic acid | PROC9 |
| | Analysis of salicylic acid | PROC15 |
| | Formulation of salicylic acid | PROC3 |
| | Sampling of final product | PROC9 |
| | Analysis of final product | PROC15 |

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6d)

| | |
|-------|--|
| ERC6d | Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) |
|-------|--|

| Product (article) characteristics | |
|---------------------------------------|---|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 5% |

| Amount used, frequency and duration of use (or from service life) | |
|---|--------------|
| Regional tonnage of the substance: | 100 % |
| Fraction of the main local source | 1 |
| Maximum local emission to waste water: | 0.454 kg/day |
| Continuous use/release, Emission days | 100 days/yr |

| Conditions and measures related to sewage treatment plant | |
|--|------------------------|
| Municipal Sewage Treatment Plant. Assumed domestic sewage treatment plant flow | 2000 m ³ /d |



Salicylic acid

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Conditions and measures related to treatment of waste (including article waste)

External treatment and disposal of waste should comply with applicable local and/or national regulations

External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Local freshwater dilution factor 10

Local marine water dilution factor 100

2.2.2. Control of worker exposure: Unloading of salicylic from 25 kg bags (PROC8b)

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

Product (article) characteristics

Physical form of product Solid, high dustiness

Concentration of substance in product Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration 15 min - 1 h. (repeated exposure)

Technical and organisational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Local exhaust ventilation - efficiency of at least 95 %
ECETOC TRA

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency 90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor

2.2.3. Control of worker exposure: Unloading of salicylic from Big Bag (PROC8b)

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities



Salicylic acid

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| Product (article) characteristics | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |

| Technical and organisational conditions and measures | |
|---|--------------------|
| Avoid formation of dust. Transfer via enclosed lines | |
| Local exhaust ventilation - efficiency of at least | 95 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

| Conditions and measures related to personal protection, hygiene and health evaluation | |
|---|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

| Other conditions affecting workers exposure | |
|---|--|
| indoor | |

2.2.4. Control of worker exposure: Sampling of salicylic acid (PROC9)

| | |
|-------|---|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---|

| Product (article) characteristics | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |

| Technical and organisational conditions and measures | |
|--|--|
| Ensure dedicated sample points are provided | |



Salicylic acid

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Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor

2.2.5. Control of worker exposure: Analysis of salicylic acid (PROC15)

PROC15

Use as laboratory reagent

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes
repeated exposure

Technical and organisational conditions and measures

Avoid formation of dust

Local exhaust ventilation - efficiency of at least

95 %
ECETOC TRA

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting workers exposure

indoor



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

2.2.6. Control of worker exposure: Formulation of salicylic acid (PROC3)

| | |
|-------|--|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5% |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Use in closed batch process (synthesis or formulation) | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure

indoor

2.2.7. Control of worker exposure: Sampling of final product (PROC9)

| | |
|-------|---|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|-----------------------|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

Technical and organisational conditions and measures

| | |
|--|--|
| Ensure dedicated sample points are provided | |
| Avoid splashing. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure

| | |
|--------|--|
| indoor | |
|--------|--|

2.2.8. Control of worker exposure: Analysis of final product (PROC15)

| | |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

Product (article) characteristics

| | |
|---------------------------------------|-----------------------|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|---|--------------------|
| Avoid splashing | |
| Local exhaust ventilation - efficiency of at least | 95 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure



Salicylic acid

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indoor

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6d)

| Information for contributing exposure scenario | | |
|---|---------|------------------------|
| Release fraction to air from process (initial release prior to RMM): | 0.35 | Default values: ERC 6d |
| Release fraction to wastewater from process (initial release prior to RMM): | 0.00005 | Default values: ERC 6d |
| Release fraction to soil from process (initial release prior to RMM): | 0.00025 | Default values: |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-----------------------|---------------------|------------------|-------|-------------------|
| Freshwater | 0.00825 mg/l | 0.2 mg/l | 0.041 | EUSES v2.1 |
| Marine water | 0.00831 mg/l | 0.02 mg/l | 0.416 | EUSES v2.1 |
| Freshwater sediment | 0.0585 mg/kg dw t | 1.42 mg/kg dw t | 0.041 | EUSES v2.1 |
| Marine water sediment | 0.0059 mg/kg dw t | 0.142 mg/kg dw t | 0.042 | EUSES v2.1 |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|------------------------|---------------------|----------|-----|-------------------|
| Sewage treatment plant | 0.0286 mg/l | 162 mg/l | 0 | EUSES v2.1 |

2.3.2. Worker exposure Unloading of salicylic from 25 kg bags (PROC8b)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|--------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |



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| | | | |
|--------------------------------------|------------------------|------|--|
| Dermal - Long-term- systemic effects | 0.069 mg/kg bw /day | 0.03 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.03 | |
| Long term - Local - Inhalation | 0.25 mg/m ³ | 0.05 | ECETOC TRA worker ,Default values: ,Inert dust |

2.3.3. Worker exposure Unloading of salicylic from Big Bag (PROC8b)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.069 mg/kg bw /day | 0.03 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.03 | |
| Long term - Local - Inhalation | 0.125 mg/m ³ | 0.025 | ECETOC TRA worker ,Default values: ,Inert dust |

2.3.4. Worker exposure Sampling of salicylic acid (PROC9)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.3 | |
| Long term - Local - Inhalation | 0.032 mg/m ³ | 0.006 | ECETOC TRA worker ,Default values: ,Inert dust |

2.3.5. Worker exposure Analysis of salicylic acid (PROC15)

| Information for contributing exposure scenario | | | |
|--|------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.003 mg/kg bw /day | 0.001 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.001 | |
| Long term - Local - Inhalation | 0.05 mg/m ³ | 0.01 | ECETOC TRA worker ,Default values: ,Inert dust |

2.3.6. Worker exposure Formulation of salicylic acid (PROC3)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.03 mg/kg bw /day | 0.013 | ECETOC TRA worker |



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| | | | |
|--------------------------------------|--|-------|--|
| Sum RCR - Long-term-systemic effects | | 0.013 | |
|--------------------------------------|--|-------|--|

2.3.7. Worker exposure Sampling of final product (PROC9)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.3 | |

2.3.8. Worker exposure Analysis of final product (PROC15)

| Information for contributing exposure scenario | | | |
|--|---------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.003 mg/kg bw /day | 0.001 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.001 | |

2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

2.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMMS or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

2.4.2. Health

| | |
|-------------------|--|
| Guidance - Health | Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|-------------------|--|

3. ES3 - Use for the separation of salts

3. ES3 - Industrial; Use for the separation of salts

3.1. Title section

| Use for the separation of salts | |
|--|--|
| ES Ref.: ES3 ES Type: Worker Revision date: 01/02/2023 | |

| Environment | Use descriptors |
|--|-----------------|
| Contributing scenario controlling environmental exposure | ERC6b |



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| Worker | | Use descriptors |
|--------|---|-----------------|
| | Contributing scenario controlling worker exposure | PROC5 |
| | Unloading of salicylic from Big Bag | PROC8b |
| | Transfer of salicylic acid into the process | PROC1 |
| | Transfer of salicylic acid into the process | PROC2 |

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6b)

| | |
|-------|---|
| ERC6b | Use of reactive processing aid at industrial site (no inclusion into or onto article) |
|-------|---|

| Product (article) characteristics | |
|---------------------------------------|--|
| Physical form of product | Solid |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

| Amount used, frequency and duration of use (or from service life) | |
|---|-------------|
| Annual amount per site | ≤ 500 t/yr |
| Continuous use/release, Emission days | 350 days/yr |

| Conditions and measures related to sewage treatment plant | |
|--|------------------------|
| Assumed domestic sewage treatment plant flow | 2000 m ³ /d |
| Biological sewage treatment plant. Efficiency : | 87.37 % |
| Controlled application of sewage sludge to agricultural soil | |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of | 60 % |

| Conditions and measures related to treatment of waste (including article waste) | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | | |
|---|---------------------------|--|
| Local freshwater dilution factor: | 10 | |
| Local marine water dilution factor: | 100 | |
| Receiving surface water flow | ≥ 18000 m ³ /d | |



Salicylic acid

| | | | |
|-------|---------------|----------------------------------|-------------------------------------|
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3.2.2. Control of worker exposure: Contributing scenario controlling worker exposure (PROC5)

| | |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

3.2.3. Control of worker exposure: Unloading of salicylic from Big Bag (PROC8b)

| | |
|--------|---|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|---|--------------------|
| Transfer via enclosed lines. Avoid formation of dust | |
| Local exhaust ventilation - efficiency of at least | 95 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting workers exposure

| | |
|--------|--|
| indoor | |
|--------|--|

3.2.4. Control of worker exposure: Transfer of salicylic acid into the process (PROC1)

| | |
|-------|--|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

| Amount used, frequency and duration of use (or from service life) | |
|---|--|
| Exposure duration | 1-4 hours per day. (repeated exposure) |

| Technical and organisational conditions and measures | |
|---|--|
| Used in closed systems | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

| Conditions and measures related to personal protection, hygiene and health evaluation | |
|---|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

| Other conditions affecting workers exposure | |
|---|--|
| indoor | |

3.2.5. Control of worker exposure: Transfer of salicylic acid into the process(PROC2)

| | |
|-------|--|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|--|

| Product (article) characteristics | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

| Amount used, frequency and duration of use (or from service life) | |
|---|--|
| Exposure duration | 1-4 hours per day. (repeated exposure) |

| Technical and organisational conditions and measures | |
|---|--|
| Used in closed systems | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

| Conditions and measures related to personal protection, hygiene and health evaluation | |
|---|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

| Other conditions affecting workers exposure | |
|---|--|
|---|--|



Salicylic acid

Verze
3.1

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indoor

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6b)

Information for contributing exposure scenario

| | | |
|--|-------------|--|
| Maximum local emission to waste water: | 1430 kg/day | |
| Water | | |
| Release factor before on site RMM: | 5 % | |
| Release factor after on site RMM: | 2 % | |
| Release rate, local | 28.6 kg/yr | |
| Air | | (Estimated release factor) |
| Release factor before on site RMM: | 0 | |
| Release factor after on site RMM: | 0 | |
| Release rate, local | 0 kg/yr | (Since Henry's law constant is 0.0014 and 0.00069 Pa.m ³ /mol at 25°C and environmental temperature respectively, salicylic acid is less volatile than water. The emission to air is to be considered as negligible.) |
| Agricultural soil | | |
| Release factor after on site RMM: | 0.025 % | |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-----------------------|---------------------|------------------|------|-------------------|
| Freshwater | 0.186 mg/l | 0.2 mg/l | 0.93 | EUSES v2.1 |
| Marine water | 0.019 mg/l | 0.02 mg/l | 0.95 | EUSES v2.1 |
| Freshwater sediment | 1.321 mg/kg dw t | 1.42 mg/kg dw t | 0.93 | EUSES v2.1 |
| Marine water sediment | 0.132 mg/kg dw t | 0.142 mg/kg dw t | 0.93 | EUSES v2.1 |



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| | | | | |
|-------------------------|------------------|------------------|-------|------------|
| Sew age treatment plant | 1.805 mg/l | 162 mg/l | 0.011 | EUSES v2.1 |
| Soil | 0.143 mg/kg dw t | 0.166 mg/kg dw t | 0.861 | EUSES v2.1 |

3.3.2. Worker exposure Contributing scenario controlling worker exposure (PROC5)

Information for contributing exposure scenario

During the mixing of SA with salt, SA is only added with a concentration of 30 ppm. Therefore as the concentration is less than 1%, this task was not assessed with modelisation tools and considered to be controlled.

3.3.3. Worker exposure Unloading of salicylic from Big Bag (PROC8b)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|-------------------------|-------|--|
| Dermal - Long-term- systemic effects | 0.069 mg/kg bw /day | 0.03 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.03 | |
| Long term - Local - Inhalation | 0.125 mg/m ³ | 0.025 | ECETOC TRA worker ,Default values: ,Inert dust |

3.3.4. Worker exposure Transfer of salicylic acid into the process (PROC1)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|-------------------------|-------|--|
| Dermal - Long-term- systemic effects | 0.34 mg/kg bw /day | 0.148 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.148 | |
| Long term - Local - Inhalation | 0.006 mg/m ³ | 0.001 | ECETOC TRA worker ,Default values: ,Inert dust |

3.3.5. Worker exposure Transfer of salicylic acid into the process (PROC2)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|-----------------------|-------|--|
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw /day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |
| Long term - Local - Inhalation | 0.6 mg/m ³ | 0.12 | ECETOC TRA worker ,Default values: ,Inert dust |



Salicylic acid

| | | | |
|-------|---------------|----------------------------------|-------------------------------------|
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3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

3.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

3.4.2. Health

| | |
|-------------------|--|
| Guidance - Health | Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|-------------------|--|

4. ES4 - Formulation & (re)packing of substances and mixtures

4. ES4 - Industrial; Formulation & (re)packing of substances and mixtures

4.1. Title section

Formulation & (re)packing of substances and mixtures

ES Ref.: ES4
ES Type: Worker
Revision date: 06/10/2020

| Environment | | Use descriptors |
|-------------|--|-----------------|
| | Formulation (Cosmetics) | ERC2 |
| | Formulation (Fertilizers) | ERC2 |
| | Formulation (Cleaning agent, Professional) | ERC2 |
| | Formulation (Cleaning agent, Consumer) | ERC2 |

| Worker | | Use descriptors |
|--------|---|-----------------|
| | Unloading of salicylic from 25 kg bags | PROC8b |
| | Sampling of salicylic acid | PROC9 |
| | Analysis of salicylic acid | PROC15 |
| | blending / Ingredients | PROC5 |
| | Sampling of final product | PROC9 |
| | Analysis of final product | PROC15 |
| | Packaging in bigger bottles than 250 or 300 ml at dedicated facilities for fertilizer products (Fertilizers) | PROC8b |
| | Packaging of the formulation in 250 or 300 ml bottles at dedicated facilities (cosmetics and cleaning agents) | PROC9 |



Salicylic acid

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| | | |
|--|---|--------|
| | Formulation of substances with salicylic acid as a raw material in closed and batch process | PROC1 |
| | Formulation of substances with salicylic acid as a raw material in closed and batch process | PROC2 |
| | Formulation of substances with salicylic acid as a raw material in closed and batch process | PROC2 |
| | Formulation of substances with salicylic acid as a raw material in closed and batch process | PROC3 |
| | Formulation of substances with salicylic acid as a raw material in closed and batch process | PROC3 |
| | Unloading of salicylic acid as raw material | PROC8a |

| Worker | | Use descriptors |
|--------|---|-----------------|
| | Loading or packing of salicylic acid in the final product | PROC8a |
| | Tabletting, compression, extrusion, pelettisation, granulation (Cosmetic products) (Pure substance) | PROC14 |
| | Tabletting, compression, extrusion, pelettisation, granulation (Cosmetic products) (Formulation) | PROC14 |
| | Manual maintenance (cleaning and repair) of machinery | PROC28 |

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Formulation (Cosmetics) (ERC2)

| | |
|------|--------------------------|
| ERC2 | Formulation into mixture |
|------|--------------------------|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

| Amount used, frequency and duration of use (or from service life) | |
|---|-------------|
| Regional use tonnage | 100 % |
| Fraction of the main local source | 0.3 |
| Continuous use/release, Emission days | 100 days/yr |



Salicylic acid

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Conditions and measures related to sewage treatment plant

| | |
|---|------------------------|
| Municipal Sew age Treatment Plant | |
| Assumed domestic sew age treatment plant flow | 2000 m ³ /d |

Conditions and measures related to treatment of waste (including article waste)

| | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

Other conditions affecting environmental exposure

| | |
|-------------------------------------|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

4.2.2. Control of environmental exposure: Formulation (Fertilizers) (ERC2)

| | |
|------|--------------------------|
| ERC2 | Formulation into mixture |
|------|--------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

Amount used, frequency and duration of use (or from service life)

| | |
|---------------------------------------|------------|
| Regional use tonnage | 100 % |
| Fraction of the main local source | 1 |
| Continuous use/release, Emission days | 10 days/yr |

Conditions and measures related to treatment of waste (including article waste)

| | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

Other conditions affecting environmental exposure

| | |
|-------------------------------------|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

4.2.3. Control of environmental exposure: Formulation (Cleaning agent, Professional) (ERC2)



Salicylic acid

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| | |
|------|--------------------------|
| ERC2 | Formulation into mixture |
|------|--------------------------|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

| Amount used, frequency and duration of use (or from service life) | |
|---|-------------|
| Regional use tonnage | 100 % |
| Fraction of the main local source | 1 |
| Continuous use/release, Emission days | 100 days/yr |

| Conditions and measures related to sewage treatment plant | |
|---|------------------------|
| Municipal Sewage Treatment Plant | |
| Assumed domestic sewage treatment plant flow | 2000 m ³ /d |

| Conditions and measures related to treatment of waste (including article waste) | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | |
|---|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

4.2.4. Control of environmental exposure: Formulation (Cleaning agent, Consumer) (ERC2)

| | |
|------|--------------------------|
| ERC2 | Formulation into mixture |
|------|--------------------------|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

| Amount used, frequency and duration of use (or from service life) | |
|---|-------------|
| Regional use tonnage | 100 % |
| Fraction of the main local source | 1 |
| Continuous use/release, Emission days | 100 days/yr |



Salicylic acid

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Conditions and measures related to sewage treatment plant

| | |
|---|------------------------|
| Municipal Sew age Treatment Plant | |
| Assumed domestic sew age treatment plant flow | 2000 m ³ /d |

Conditions and measures related to treatment of waste (including article waste)

| | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

Other conditions affecting environmental exposure

| | |
|-------------------------------------|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

4.2.5. Control of worker exposure: Unloading of salicylic from 25 kg bags (PROC8b)

| | |
|--------|---|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------------|
| Exposure duration | 15 min - 1h. (repeated exposure) |
|-------------------|----------------------------------|

Technical and organisational conditions and measures

| | |
|--|--------------------|
| Avoid formation of dust. Transfer via enclosed lines | |
| Local exhaust ventilation - efficiency of at least | 95 % ECETOC TRA |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

Other conditions affecting environmental exposure

Indoor

4.2.6. Control of worker exposure: Sampling of salicylic acid (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes
repeated exposure

Technical and organisational conditions and measures

Ensure dedicated sample points are provided

Avoid any direct contact with the product. Avoid frequent contact with substance. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.7. Control of worker exposure: Analysis of salicylic acid (PROC15)

PROC15

Use as laboratory reagent

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure



Salicylic acid

| | | | |
|--------------|-----------------------------|--|---|
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|--------------|-----------------------------|--|---|

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|--|--------------------|
| Avoid formation of dust | |
| Local exhaust ventilation - efficiency of at least | 95 % ECETOC TRA |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

4.2.8. Control of worker exposure: blending / Ingredients (PROC5)

| | |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

Product (article) characteristics

| | |
|---------------------------------------|---|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 5% |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|--|--|
| Use in contained batch processes | |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
|--|------|



Salicylic acid

| | | | |
|--------------|-----------------------------|--|---|
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|--------------|-----------------------------|--|---|

| | |
|-----------------------------|--|
| Use suitable eye protection | |
|-----------------------------|--|

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

4.2.9. Control of worker exposure: Sampling of final product (PROC9)

| | |
|-------|---|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|---|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 5% |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|--|--|
| Ensure dedicated sample points are provided. Avoid formation of dust | |
| Avoid any direct contact with the product. Avoid frequent contact with substance. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

4.2.10. Control of worker exposure: Analysis of final product (PROC15)

| | |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

Product (article) characteristics

| | |
|---------------------------------------|---|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 5% |



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-----------------------------------|
| Exposure duration | < 15 minutes repeated exposure |
|-------------------|-----------------------------------|

Technical and organisational conditions and measures

| | |
|--|--------------------|
| Avoid splashing | |
| Local exhaust ventilation - efficiency of at least | 95 % ECETOC TRA |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

4.2.11. Control of worker exposure: Packaging in bigger bottles than 250 or 300 ml at dedicated facilities for fertilizer products (Fertilizers) (PROC8b)

| | |
|--------|---|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|---|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 5% |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|--|--|
| Avoid splashing. Transfer via enclosed lines | |
|--|--|



Salicylic acid

| | | | |
|--------------|-----------------------------|--|---|
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|--------------|-----------------------------|--|---|

Avoid any direct contact with the product. Avoid frequent contact with substance. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.12. Control of worker exposure: Packaging of the formulation in 250 or 300 ml bottles at dedicated facilities (cosmetics and cleaning agents) (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organisational conditions and measures

Avoid splashing. Transfer via enclosed lines

Avoid any direct contact with the product. Avoid frequent contact with substance. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.13. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC1)



Salicylic acid

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| | |
|-------|--|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system | |
|---|--|

Other conditions affecting environmental exposure

| | |
|-----------------|--|
| Indoor, outdoor | |
|-----------------|--|

4.2.14. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

| | |
|-------|--|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Liquid |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-------------|
| Exposure duration | 15 min - 1h |
|-------------------|-------------|

Technical and organisational conditions and measures

| | |
|--|------|
| Handle substance within a closed system | |
| Ensure operation is undertaken outdoors. Efficiency | 30 % |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |



Salicylic acid

| | | | |
|-------|---------------|----------------------------------|-------------------------------------|
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Other conditions affecting environmental exposure

outdoor

4.2.15. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 min - 1h

Technical and organisational conditions and measures

Handle substance within a closed system

Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting environmental exposure

outdoor

4.2.16. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC3)

PROC3

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure



Salicylic acid

| | | | |
|--------------|-----------------------------|---|---|
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|--------------|-----------------------------|---|---|

| | |
|-------------------|-------------|
| Exposure duration | 15 min - 1h |
|-------------------|-------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system | |
|---|--|

| | |
|---|------|
| Ensure operation is undertaken outdoors. Efficiency | 30 % |
|---|------|

| | |
|--|--|
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |
|--|--|

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
|--|------|

| | |
|-----------------------------|--|
| Use suitable eye protection | |
|-----------------------------|--|

Other conditions affecting environmental exposure

| | |
|---------|--|
| outdoor | |
|---------|--|

4.2.17.substances with Control of worker exposure: Formulation of salicylic acid as a raw material in closed and batch process (PROC3)

| | |
|-------|--|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|--|

Product (article) characteristics

| | |
|--------------------------|--------|
| Physical form of product | Liquid |
|--------------------------|--------|

| | |
|---------------------------------------|--|
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |
|---------------------------------------|--|

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-------------|
| Exposure duration | 15 min - 1h |
|-------------------|-------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system | |
|---|--|

| | |
|--|--|
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |
|--|--|

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
|--|------|

| | |
|-----------------------------|--|
| Use suitable eye protection | |
|-----------------------------|--|



Salicylic acid

| | | | |
|-------|---------------|----------------------------------|-------------------------------------|
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Other conditions affecting environmental exposure

outdoor

4.2.18. Control of worker exposure: Unloading of salicylic acid as raw material (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|--|
| Exposure duration | 15 min - 1h. (Transfer of salicylic acid by loading of 25 kg bags) |
|-------------------|--|

Technical and organisational conditions and measures

| | |
|--|--------------------|
| Transfer via enclosed lines. Avoid formation of dust | |
| Local exhaust ventilation - efficiency of at least | 90 % ECETOC TRA |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

Indoor

4.2.19. Control of worker exposure: Loading or packing of salicylic acid in the final product (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Product (article) characteristics

| | |
|---------------------------------------|---|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Limit the substance content in the product to 5 % |
| Viscosity, dynamic | medium |

Amount used (or contained in articles), frequency and duration of use/exposure



Salicylic acid

| | | | |
|--------------|-----------------------------|--|---|
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|--------------|-----------------------------|--|---|

| | |
|-------------------|--|
| Exposure duration | > 4 h (Loading or packing of salicylic acid in the final product) |
|-------------------|--|

Technical and organisational conditions and measures

| | |
|--|--|
| Open systems | |
| Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

4.2.20. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (Cosmetic products) (Pure substance) (PROC14)

| | |
|--------|---|
| PROC14 | Tableting, compression, extrusion, pelettisation, granulation |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|--|
| Physical form of product | Solid, high dustiness |
| Concentration of substance in product | Covers percentage substance in the product up to 100 % (unless stated differently) |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|-------|
| Exposure duration | > 4 h |
|-------------------|-------|

Technical and organisational conditions and measures

| | |
|--|--|
| Local exhaust ventilation | |
| Avoid dust formation. Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure



Salicylic acid

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Indoor

4.2.21. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (Cosmetic products)(Formulation) (PROC14)

PROC14

Tableting, compression, extrusion, pelettisation, granulation

Product (article) characteristics

Physical form of product

Solid, low dustiness

Concentration of substance in product

Covers percentage substance in the product up to 5 %

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Avoid dust formation. Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.22. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

PROC28

Manual maintenance (cleaning and repair) of machinery

Product (article) characteristics

Physical form of product

Solid, low dustiness

Concentration of substance in product

Covers percentage substance in the product up to 5 %

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h

Technical and organisational conditions and measures



Salicylic acid

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Avoid dust formation. Avoid frequent contact with substance. Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|---|------|
| Use suitable eye protection | |
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Wear a respirator providing a minimum efficiency of | 90 % |

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure Formulation (Cosmetics) (ERC2)

Information for contributing exposure scenario

| | | |
|---|-------------|------------------------|
| Maximum local emission to waste water: | 23.3 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0.025 | (Default values: ERC2) |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 0.02 | (Default values: ERC2) |
| Release fraction to soil from process (initial release prior to RMM): | 0.0001 | (Default values: ERC2) |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-----------------------|---------------------|------------------|-------|-------------------|
| Freshwater | 0.153 mg/l | 0.2 mg/l | 0.765 | EUSES v2.1 |
| Marine water | 0.0153 mg/l | 0.02 mg/l | 0.765 | EUSES v2.1 |
| Freshwater sediment | 1.09 mg/kg dw t | 1.42 mg/kg dw t | 0.768 | EUSES v2.1 |
| Marine water sediment | 0.108 mg/kg dw t | 0.142 mg/kg dw t | 0.761 | EUSES v2.1 |



Salicylic acid

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| | | | | |
|-------------------------|-----------|----------|-------|------------|
| Sew age treatment plant | 1.47 mg/l | 162 mg/l | 0.009 | EUSES v2.1 |
|-------------------------|-----------|----------|-------|------------|

4.3.2. Environmental release and exposure Formulation (Fertilizers) (ERC2)

| Information for contributing exposure scenario | | |
|---|-------------|------------------------|
| Maximum local emission to waste water: | 5.18 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0.025 | (Default values: ERC2) |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 0.02 | (Default values: ERC2) |
| Release fraction to soil from process (initial release prior to RMM): | 0.0001 | (Default values: ERC2) |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|------------------------|---------------------|------------------|-------|-------------------|
| Freshwater | 0.0381 mg/l | 0.2 mg/l | 0.191 | EUSES v2.1 |
| Marine water | 0.00382 mg/l | 0.02 mg/l | 0.191 | EUSES v2.1 |
| Freshwater sediment | 0.27 mg/kg dw t | 1.42 mg/kg dw t | 0.19 | EUSES v2.1 |
| Marine water sediment | 0.0271 mg/kg dw t | 0.142 mg/kg dw t | 0.191 | EUSES v2.1 |
| Sewage treatment plant | 0.327 mg/l | 162 mg/l | 0.002 | EUSES v2.1 |

4.3.3. Environmental release and exposure Formulation (Cleaning agent, Professional) (ERC2)

| Information for contributing exposure scenario | | |
|---|-------------|--|
| Maximum local emission to waste water: | 25.9 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0.025 | |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 0.02 | |



Salicylic acid

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| | | |
|---|--------|--|
| Release fraction to soil from process (initial release prior to RMM): | 0.0001 | |
|---|--------|--|

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|------------------------|---------------------|------------------|-------|-------------------|
| Freshwater | 0.169 mg/l | 0.2 mg/l | 0.845 | EUSES v2.1 |
| Marine water | 0.0169 mg/l | 0.02 mg/l | 0.845 | EUSES v2.1 |
| Freshwater sediment | 1.2 mg/kg dw t | 1.42 mg/kg dw t | 0.845 | EUSES v2.1 |
| Marine water sediment | 0.12 mg/kg dw t | 0.142 mg/kg dw t | 0.845 | EUSES v2.1 |
| Sewage treatment plant | 1.64 mg/l | 162 mg/l | 0.01 | EUSES v2.1 |

4.3.4. Environmental release and exposure Formulation (Cleaning agent, Consumer) (ERC2)

| Information for contributing exposure scenario | | |
|---|-------------|--------------------------|
| Maximum local emission to wastewater: | 25.9 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0.025 | (Default values: ERC2) |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 0.02 | (Default values: : ERC2) |
| Release fraction to soil from process (initial release prior to RMM): | 0.0001 | (Default values: ERC2) |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-------------------|---------------------|----------|-------|-------------------|
| Freshwater | 0.169 mg/l | 0.2 mg/l | 0.845 | EUSES v2.1 |



Salicylic acid

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| | | | | |
|------------------------|-----------------|------------------|-------|------------|
| Marine water | 0.0169 mg/l | 0.02 mg/l | 0.845 | EUSES v2.1 |
| Freshwater sediment | 1.2 mg/kg dw t | 1.42 mg/kg dw t | 0.845 | EUSES v2.1 |
| Marine water sediment | 0.12 mg/kg dw t | 0.142 mg/kg dw t | 0.845 | EUSES v2.1 |
| Sewage treatment plant | 1.64 mg/l | 162 mg/l | 0.01 | EUSES v2.1 |

4.3.5. Worker exposure Unloading of salicylic from 25 kg bags (PROC8b)

| Information for contributing exposure scenario | | | |
|--|------------------------|------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.069 mg/kg bw /day | 0.03 | ECETOC TRA worker |
| Inhalation - Long-term - systemic effects | 0.25 mg/m ³ | 0.05 | ECETOC TRA worker ,Default values: ,Inert dust |
| Sum RCR - Long-term - systemic effects | | 0.08 | |
| Long term - Local - Inhalation | 0.25 mg/m ³ | 0.05 | ECETOC TRA worker ,Default values: ,Inert dust |

4.3.6. Worker exposure Sampling of salicylic acid (PROC9)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Inhalation - Long-term - systemic effects | 0.032 mg/m ³ | 0.006 | ECETOC TRA worker ,Default values: ,Inert dust |
| Sum RCR - Long-term - systemic effects | | 0.306 | |
| Long term - Local - Inhalation | 0.032 mg/m ³ | 0.006 | ECETOC TRA worker ,Default values: ,Inert dust |

4.3.7. Worker exposure Analysis of salicylic acid (PROC15)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|--------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |



Salicylic acid

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| | | | |
|--|------------------------|-------|--|
| Dermal - Long-term- systemic effects | 0.003 mg/kg bw /day | 0.001 | ECETOC TRA worker |
| Inhalation - Long-term- systemic effects | 0.05 mg/m ³ | 0.01 | ECETOC TRA worker ,Default values: ,Inert dust |
| Sum RCR - Long-term- systemic effects | | 0.011 | |
| Long term - Local- Inhalation | 0.05 mg/m ³ | 0.01 | ECETOC TRA worker ,Default values: ,Inert dust |

4.3.8. Worker exposure blending/Ingredients (PROC5)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 1.37 mg/kg bw /day | 0.596 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.596 | |

4.3.9. Worker exposure Sampling of final product (PROC9)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

4.3.10. Worker exposure Analysis of final product (PROC15)

| Information for contributing exposure scenario | | | |
|--|---------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.003 mg/kg bw /day | 0.001 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.001 | |

4.3.11. Worker exposure Packaging in bigger bottles than 250 or 300 ml at dedicated facilities for fertilizer products (Fertilizers) (PROC8b)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |



Salicylic acid

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4.3.12. Worker exposure Packaging of the formulation in 250 or 300 ml bottles at dedicated facilities (cosmetics and cleaning agents) (PROC9)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw/day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

4.3.13. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC1)

| Information for contributing exposure scenario | | | |
|--|--|--|--|
| Covered by PROC2 | | | |

4.3.14. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

| Information for contributing exposure scenario | | | |
|--|-------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw/day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |

4.3.15. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

| Information for contributing exposure scenario | | | |
|--|-------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw/day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |

4.3.16. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC3)

| Information for contributing exposure scenario | | | |
|--|-------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.03 mg/kg bw/day | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.013 | |

4.3.17. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC3)



Salicylic acid

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| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.03 mg/kg bw /day | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term - systemic effects | | 0.013 | |

4.3.18. Worker exposure Unloading of salicylic acid as raw material (PROC8a)

| Information for contributing exposure scenario | | | |
|--|---------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 1.37 mg/kg bw /day | 0.596 | ECETOC TRA worker |
| Inhalation - Long-term - systemic effects | 1 mg/m ³ | 0.2 | ECETOC TRA worker ,Default values: ,Inert dust |
| Sum RCR - Long-term - systemic effects | | 0.796 | |
| Long term - Local - Inhalation | 1 mg/m ³ | 0.2 | ECETOC TRA worker ,Default values: ,Inert dust |

4.3.19. Worker exposure Loading or packing of salicylic acid in the final product (PROC8a)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|--|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.28 mg/kg bw /day | 0.122 | ECETOC TRA worker |
| Sum RCR - Long-term - systemic effects | | 0.122 | |
| Long term - Local - Inhalation | | 0.2 | Not applicable, Solid in solution. For non-spraying processes (no aerosol generation), an inhalative exposure is considered to be not relevant |

4.3.20. Worker exposure Tableting, compression, extrusion, pelettisation, granulation (Cosmetic products) (Pure substance) (PROC14)

| Information for contributing exposure scenario | | | |
|--|---------------------|-------|-------------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.343 mg/kg bw /day | 0.149 | ECETOC TRA worker (V.3) |
| Inhalation - Long-term - systemic effects | 1 mg/m ³ | 0.2 | ECETOC TRA worker (V.3) |
| Sum RCR - Long-term - systemic effects | | 0.349 | |



Salicylic acid

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4.3.21. Worker exposure Tableting, compression, extrusion, pelettisation, granulation (Cosmetic products) (Formulation) (PROC14)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|-------------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.686 mg/kg bw /day | 0.298 | ECETOC TRA worker (V.3) |
| Inhalation - Long-term - systemic effects | 0.014 mg/m ³ | 0.003 | ECETOC TRA worker (V.3) |
| Sum RCR - Long-term - systemic effects | | 0.301 | |

4.3.22. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario | | | |
|--|-----------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.823 mg/kg bw /day | 0.358 | ECETOC TRA worker |
| Inhalation - Long-term - systemic effects | 2.1 mg/m ³ | 0.42 | ECETOC TRA worker |
| Sum RCR - Long-term - systemic effects | | 0.778 | |

4.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

4.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMIs or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

4.4.2. Health

| | |
|-------------------|--|
| Guidance - Health | Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|-------------------|--|

5. ES5 - Cosmetics, personal care products

5. ES5 - Consumer; Cosmetics, personal care products

5.1. Title section Cosmetics, personal care products

ES Ref.: ES5
ES Type: Consumer

| Environment | Use descriptors |
|--|-----------------|
| Contributing scenario controlling environmental exposure | ERC8a |



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| Consumer | Use descriptors |
|--|-----------------|
| Contributing scenario consumer end-use | PC39 |

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC8a)

| | |
|-------|---|
| ERC8a | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
|-------|---|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

| Amount used, frequency and duration of use (or from service life) | |
|---|-------------|
| Regional use tonnage | 10 % |
| Fraction of the main local source | 0.002 |
| Continuous use/release, Emission days | 365 days/yr |

| Conditions and measures related to treatment of waste (including article waste) | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | |
|---|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

5.2.2. Control of consumer exposure: Contributing scenario consumer end-use (PC39)

| | |
|------|-----------------------------------|
| PC39 | Cosmetics, personal care products |
|------|-----------------------------------|

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC8a)

| Information for contributing exposure scenario | | |
|---|--------------|-------------------------|
| Maximum local emission to waste water: | 0.203 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0 | |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 1 | (Default values: ERC8a) |



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| | | |
|---|---|--|
| Release fraction to soil from process (initial release prior to RMM): | 0 | |
|---|---|--|

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|------------------------|---------------------|------------------|-------|-------------------|
| Freshwater | 0.0066 mg/l | 0.2 mg/l | 0.033 | EUSES v2.1 |
| Marine water | 0.00067 mg/l | 0.02 mg/l | 0.034 | EUSES v2.1 |
| Freshwater sediment | 0.047 mg/kg dw t | 1.42 mg/kg dw t | 0.033 | EUSES v2.1 |
| Marine water sediment | 0.00478 mg/kg dw t | 0.142 mg/kg dw t | 0.034 | EUSES v2.1 |
| Sewage treatment plant | 0.0128 mg/l | 162 mg/l | 0 | EUSES v2.1 |

5.3.2. Consumer exposure Contributing scenario consumer end-use (PC39)

| Information for contributing exposure scenario |
|--|
| For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation |

5.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

5.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

5.4.2. Health

| | |
|-------------------|--|
| Guidance - Health | No additional risk management measures, besides those that are mentioned above, are needed to guarantee safe use for consumers |
|-------------------|--|

6. ES6 - Professional; Use in Cleaning Agents

6.1. Title section



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Use as an Cleaning Agentes

ES Ref.: ES6
ES Type: Worker

| Environment | | Use descriptors |
|-------------|--|-----------------|
| | Contributing scenario controlling environ- mental exposure | ERC8a |
| Worker | | Use descriptors |
| | Pouring/unloading of cleaning agents from large and small containers by professionals | PROC8a |
| | Pouring/unloading of cleaning agents from large and small containers by professionals | PROC8b |
| | Pouring/unloading of cleaning agents from large and small containers by professionals | PROC9 |
| | Pouring/unloading of cleaning agents from large and small containers by professionals | PROC8a |
| | Pouring/unloading of cleaning agents from large and small containers by professionals | PROC8b |
| | Pouring/unloading of cleaning agents from large and small containers by professionals | PROC9 |
| | Mixing/diluting in the preparatory phase by professionals | PROC1 |
| | Contributing scenario controlling w orker exposure | PROC2 |
| | Contributing scenario controlling w orker exposure | PROC3 |
| | Contributing scenario controlling w orker exposure | PROC4 |
| | Mixing/diluting in the preparatory phase by professionals | PROC1 |
| | Contributing scenario controlling w orker exposure | PROC2 |
| | Contributing scenario controlling w orker exposure | PROC3 |
| | Contributing scenario controlling w orker exposure | PROC4 |
| | Cleaning activities by professionals | PROC10 |
| | Cleaning activities by professionals | PROC11 |
| | Cleaning activities by professionals | PROC13 |
| | Cleaning activities by professionals | PROC10 |



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| | | |
|--|--------------------------------------|--------|
| | Cleaning activities by professionals | PROC11 |
| | Cleaning activities by professionals | PROC13 |

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC8a)

| | |
|-------|---|
| ERC8a | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
|-------|---|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

| Amount used, frequency and duration of use (or from service life) | |
|---|-------------|
| Regional use tonnage | 100 % |
| Fraction of the main local source | 0.0002 |
| Continuous use/release, Emission days | 365 days/yr |

| Conditions and measures related to sewage treatment plant | |
|---|------------------------|
| Municipal Sewage Treatment Plant | |
| Assumed domestic sewage treatment plant flow | 2000 m ³ /d |

| Conditions and measures related to treatment of waste (including article waste) | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | |
|---|-----|
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |

6.2.2. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

| | |
|--------|---|
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
|--------|---|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |



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| | | | |
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|--------------|-----------------------------|---|---|

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|------|
| Avoid splashing | |
| Ensure operation is undertaken outdoors. Efficiency | 30 % |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| |
|---------|
| Outdoor |
|---------|

6.2.3. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

| | |
|--------|---|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|------|
| Avoid splashing | |
| Ensure operation is undertaken outdoors. Efficiency | 30 % |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
|--|------|



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|--------------|-----------------------------|--|---|

| | |
|-----------------------------|--|
| Use suitable eye protection | |
|-----------------------------|--|

Other conditions affecting environmental exposure

| | |
|---------|--|
| Outdoor | |
|---------|--|

6.2.4. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

| | |
|-------|---|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|------|
| Avoid splashing | |
| Ensure operation is undertaken outdoors. Efficiency | 30 % |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|---------|--|
| Outdoor | |
|---------|--|

6.2.5. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

| | |
|--------|---|
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |



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Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Avoid splashing | |
| Good standard of general ventilation | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

Outdoor

6.2.6. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

| | |
|--------|---|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Avoid splashing | |
| Good standard of general ventilation | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
|--|------|



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| | | | |
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|--------------|-----------------------------|---|---|

| | |
|-----------------------------|--|
| Use suitable eye protection | |
|-----------------------------|--|

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

6.2.7. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

| | |
|-------|---|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Avoid splashing | |
| Good standard of general ventilation | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|--------|--|
| Indoor | |
|--------|--|

6.2.8. Control of worker exposure: Mixing/diluting in the preparatory phase by professionals (PROC1)

| | |
|-------|--|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |



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| | | | |
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|--------------|-----------------------------|---|---|

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system. Batch process. Continuous process | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Other conditions affecting environmental exposure

Indoor

6.2.9. Control of worker exposure: Contributing scenario controlling worker exposure (PROC2)

| | |
|-------|--|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system. Batch process. Continuous process | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

Indoor

6.2.10. Control of worker exposure: Contributing scenario controlling worker exposure (PROC3)



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| | |
|-------|--|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Handle substance within a closed system. Batch process. Continuous process | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

Indoor

6.2.11. Control of worker exposure: Contributing scenario controlling worker exposure (PROC4)

| | |
|-------|---|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|--|--|
| Handle substance within a closed system. Batch process. Continuous process | |
| Good standard of general ventilation | |



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| | | | |
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|--------------|-----------------------------|--|---|

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

6.2.12. Control of worker exposure: Mixing/diluting in the preparatory phase by professionals (PROC1)

PROC1

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5 %

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organisational conditions and measures

Handle substance within a closed system. Batch process. Continuous process

Ensure operation is undertaken outdoors

30 %
ECETOC TRA

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Other conditions affecting environmental exposure

Outdoor

6.2.13. Control of worker exposure: Contributing scenario controlling worker exposure (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid



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| | |
|---------------------------------------|-------|
| Concentration of substance in product | 1-5 % |
|---------------------------------------|-------|

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--------------------|
| Handle substance within a closed system. Batch process. Continuous process | |
| Ensure operation is undertaken outdoors | 30 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|---------|--|
| Outdoor | |
|---------|--|

6.2.14. Control of worker exposure: Contributing scenario controlling worker exposure (PROC3)

| | |
|-------|--|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|--|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--------------------|
| Handle substance within a closed system. Batch process. Continuous process | |
| Ensure operation is undertaken outdoors | 30 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |



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Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

Outdoor

6.2.15. Control of worker exposure: Contributing scenario controlling worker exposure (PROC4)

| | |
|-------|---|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--------------------|
| Handle substance within a closed system. Batch process. Continuous process | |
| Ensure operation is undertaken outdoors | 30 % ECETOC TRA |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

Outdoor

6.2.16. Control of worker exposure: Cleaning activities by professionals (PROC10)

| | |
|--------|--------------------------------|
| PROC10 | Roller application or brushing |
|--------|--------------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |



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| | | | |
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|--------------|-----------------------------|---|---|

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|----------------------------|
| Exposure duration | > 4 h repeated exposure |
|-------------------|----------------------------|

Technical and organisational conditions and measures

| | |
|---|--|
| Avoid splashing | |
| Good standard of general ventilation | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

indoor

6.2.17. Control of worker exposure: Cleaning activities by professionals (PROC11)

| | |
|--------|-------------------------|
| PROC11 | Non industrial spraying |
|--------|-------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|--|
| Exposure duration | 1-4 hours per day. (repeated exposure) |
|-------------------|--|

Technical and organisational conditions and measures

| | |
|---|--|
| Avoid splashing | |
| Good standard of general ventilation | |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |



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| | | | |
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|--------------|-----------------------------|---|---|

Other conditions affecting environmental exposure

indoor

6.2.18. Control of worker exposure: Cleaning activities by professionals (PROC13)

PROC13

Treatment of articles by dipping and pouring

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5 %

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organisational conditions and measures

Avoid splashing

Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency

90 %

Use suitable eye protection

Other conditions affecting environmental exposure

indoor

6.2.19. Control of worker exposure: Cleaning activities by professionals (PROC10)

PROC10

Roller application or brushing

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5 %

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organisational conditions and measures



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| | |
|---|------|
| Avoid splashing | |
| Ensure operation is undertaken outdoors | 30 % |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|---------|--|
| outdoor | |
|---------|--|

6.2.20. Control of worker exposure: Cleaning activities by professionals (PROC11)

| | |
|--------|-------------------------|
| PROC11 | Non industrial spraying |
|--------|-------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-------------------|--|
| Exposure duration | 1-4 hours per day. (repeated exposure) |
|-------------------|--|

Technical and organisational conditions and measures

| | |
|---|------|
| Avoid splashing | |
| Ensure operation is undertaken outdoors | 30 % |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

Conditions and measures related to personal protection, hygiene and health evaluation

| | |
|--|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

Other conditions affecting environmental exposure

| | |
|---------|--|
| outdoor | |
|---------|--|

6.2.21. Control of worker exposure: Cleaning activities by professionals (PROC13)



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| | |
|--------|--|
| PROC13 | Treatment of articles by dipping and pouring |
|--------|--|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 1-5 % |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|----------------------------|
| Exposure duration | > 4 h repeated exposure |

| Technical and organisational conditions and measures | |
|---|------|
| Avoid splashing | |
| Ensure operation is undertaken outdoors | 30 % |
| Avoid any direct contact with the product. Minimisation of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

| Conditions and measures related to personal protection, hygiene and health evaluation | |
|---|------|
| Wear suitable gloves tested to EN374. Efficiency | 90 % |
| Use suitable eye protection | |

| Other conditions affecting environmental exposure | |
|---|--|
| outdoor | |

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC8a)

| Information for contributing exposure scenario | | |
|---|--------------|-------------------------|
| Maximum local emission to waste water: | 0.068 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0 | |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 1 | (Default values: ERC8a) |
| Release fraction to soil from process (initial release prior to RMM): | 0 | |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-------------------|---------------------|------|-----|-------------------|
|-------------------|---------------------|------|-----|-------------------|



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| | | | | |
|----------------------|-------------------|-----------------|-------|------------|
| Freshw ater | 0.00581 mg/l | 0.2 mg/l | 0.029 | EUSES v2.1 |
| Marine w ater | 0.000587 mg/l | 0.02 mg/l | 0.029 | EUSES v2.1 |
| Freshw ater sediment | 0.0412 mg/kg dw t | 1.42 mg/kg dw t | 0.029 | EUSES v2.1 |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|-------------------------|---------------------|-----------------|------|-------------------|
| Marine w ater sediment | 0.00417 mg/kg dw t | 0.14 mg/kg dw t | 0.03 | EUSES v2.1 |
| Sew age treatment plant | 0.00428 mg/l | 162 mg/l | 0 | EUSES v2.1 |

6.3.2. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|--------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- sys- temic effects | 1.37 mg/kg bw /day | 0.596 | ECETOC TRA w orker |
| Sum RCR - Long-term- systemic effects | | 0.596 | |

6.3.3. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|--------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- sys- temic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA w orker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

6.3.4. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

| Information for contributing exposure scenario | | | |
|--|--|--|--|
|--|--|--|--|



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| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-----|-------------------|
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

6.3.5. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 1.37 mg/kg bw /day | 0.596 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.596 | |

6.3.6. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

6.3.7. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

6.3.8. Worker exposure Mixing/diluting in the preparatory phase by professionals (PROC1)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.34 mg/kg bw /day | 0.148 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.148 | |

6.3.9. Worker exposure Contributing scenario controlling worker exposure (PROC2)



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Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-------|-------------------|
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw /day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |

6.3.10. Worker exposure Contributing scenario controlling worker exposure (PROC3)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-------|-------------------|
| Dermal - Long-term- systemic effects | 0.03 mg/kg bw /day | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.013 | |

6.3.11. Worker exposure Contributing scenario controlling worker exposure (PROC4)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-----|-------------------|
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

6.3.12. Worker exposure Mixing/diluting in the preparatory phase by professionals (PROC1)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-------|-------------------|
| Dermal - Long-term- systemic effects | 0.34 mg/kg bw /day | 0.148 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.148 | |

6.3.13. Worker exposure Contributing scenario controlling worker exposure (PROC2)

Information for contributing exposure scenario

| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-------|-------------------|
| Dermal - Long-term- systemic effects | 0.14 mg/kg bw /day | 0.061 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.061 | |

6.3.14. Worker exposure Contributing scenario controlling worker exposure (PROC3)

Information for contributing exposure scenario



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| Route of exposure and type of effects | Exposure estimate | RCR | Method |
|---------------------------------------|--------------------|-------|-------------------|
| Dermal - Long-term- systemic effects | 0.03 mg/kg bw /day | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.013 | |

6.3.15. Worker exposure Contributing scenario controlling worker exposure (PROC4)

| Information for contributing exposure scenario | | | |
|--|--------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.69 mg/kg bw /day | 0.3 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.3 | |

6.3.16. Worker exposure Cleaning activities by professionals (PROC10)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.55 mg/kg bw /day | 0.239 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.239 | |

6.3.17. Worker exposure Cleaning activities by professionals (PROC11)

| Information for contributing exposure scenario | | | |
|--|-----------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 1.29 mg/kg bw /day | 0.561 | ECETOC TRA worker |
| Inhalation - Long-term- systemic effects | 1.6 mg/m ³ | 0.32 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.881 | |

6.3.18. Worker exposure Cleaning activities by professionals (PROC13)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.27 mg/kg bw /day | 0.117 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.117 | |

6.3.19. Worker exposure Cleaning activities by professionals (PROC10)



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| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.55 mg/kg bw /day | 0.239 | ECETOC TRA worker |
| Sum RCR - Long-term - systemic effects | | 0.239 | |

6.3.20. Worker exposure Cleaning activities by professionals (PROC11)

| Information for contributing exposure scenario | | | |
|--|------------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 1.29 mg/kg bw /day | 0.561 | ECETOC TRA worker |
| Inhalation - Long-term - systemic effects | 0.57 mg/m ³ | 0.114 | ECETOC TRA worker |
| Sum RCR - Long-term - systemic effects | | 0.675 | |

6.3.21. Worker exposure Cleaning activities by professionals (PROC13)

| Information for contributing exposure scenario | | | |
|--|--------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term - systemic effects | 0.27 mg/kg bw /day | 0.117 | ECETOC TRA worker |
| Sum RCR - Long-term - systemic effects | | 0.117 | |

6.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

6.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

6.4.2. Health

| | |
|-------------------|---|
| Guidance - Health | Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|-------------------|---|

7. ES7 - Use in Cleaning Agents

7. ES7 - Consumer; Use in Cleaning Agents

7.1. Title section



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Use in Cleaning Agents

ES Ref.: ES7
ES Type: Consumer

| Environment | Use descriptors |
|--|-----------------|
| Contributing scenario controlling environmental exposure | ERC8a |

| Consumer | Use descriptors |
|---|-----------------|
| Cleaning activities by customers (Air care, instant action (aerosol sprays)) | PC3 |
| Cleaning activities by customers (Air care, continuous action (solid and liquid)) | PC3 |
| Cleaning activities by customers (Polishes, wax / cream (floor, furniture, shoes)) | PC31 |
| Cleaning activities by customers (Polishes, spray (furniture, shoes)) | PC31 |
| Cleaning activities by customers (Laundry and dish washing products) | PC35 |
| Cleaning activities by customers (Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)) | PC35 |
| Cleaning activities by customers (Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)) | PC35 |

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC8a)

| | |
|-------|---|
| ERC8a | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
|-------|---|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

Amount used, frequency and duration of use (or from service life)

| | |
|---------------------------------------|-------------------------------|
| Regional use tonnage | 10 % (Wide dispersive use) |
| Fraction of the main local source | 0.002 |
| Continuous use/release, Emission days | 365 days/yr |

Conditions and measures related to treatment of waste (including article waste)



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| | |
|--|--|
| External treatment and disposal of waste should comply with applicable local and/or national regulations | |
| External recovery and recycling of waste should comply with applicable local and/or national regulations | |

| Other conditions affecting environmental exposure | |
|---|-----|
| Local freshwater dilution factor | 10 |
| Local marine water dilution factor | 100 |

7.2.2. Control of consumer exposure: Cleaning activities by customers (Air care, instant action (aerosol sprays)) (PC3)

| | |
|-----|-------------------|
| PC3 | Air care products |
|-----|-------------------|

| Product (article) characteristics | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

| Amount used (or contained in articles), frequency and duration of use/exposure | |
|--|-------------|
| Amount per use | 0.007 kg |
| Exposure duration | 0.3 h |
| Covers exposure up to | 365 days/yr |
| Use frequency | 1 times/day |

| Other conditions affecting consumer exposure | |
|--|------------------------|
| Inhalation | 1.37 m ³ /h |
| Release fraction to air | 1 |
| Covers use in room size of | 20 m ³ |

7.2.3. Control of consumer exposure: Cleaning activities by customers (Air care, continuous action (solid and liquid)) (PC3)

| | |
|-----|-------------------|
| PC3 | Air care products |
|-----|-------------------|

| Product (article) characteristics | |
|--|-------------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Amount per use | 0.05 kg |
| Use frequency | 1 times/day |
| Exposure duration | 8 h |



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| | |
|-----------------------|-------------|
| Covers exposure up to | 365 days/yr |
|-----------------------|-------------|

Other conditions affecting consumer exposure

| | |
|----------------------------|------------------------|
| Body weight | 70 kg (Adult) |
| dermal exposure | 35.7 cm ² |
| Release fraction to air | 0.001 |
| Covers use in room size of | 20 m ³ |
| Inhalation | 1.37 m ³ /h |

7.2.4. Control of consumer exposure: Cleaning activities by customers (Polishes, wax / cream (floor, furniture, shoes)) (PC31)

| | |
|------|-------------------------|
| PC31 | Polishes and wax blends |
|------|-------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-----------------------|---------------|
| Amount per use | 0.55 kg |
| Exposure duration | 4 h |
| Covers exposure up to | 365 days/yr |
| Use frequency | 0.5 times/day |

Other conditions affecting consumer exposure

| | |
|----------------------------|---|
| dermal exposure | 420 cm ² (Palm of both hands) |
| Body weight | 70 kg (Adult) |
| Covers use in room size of | 20 m ³ |
| Release fraction to air | 0.001 |
| Inhalation | 1.37 m ³ /h |

7.2.5. Control of consumer exposure: Cleaning activities by customers (Polishes, spray (furniture, shoes)) (PC31)

| | |
|------|-------------------------|
| PC31 | Polishes and wax blends |
|------|-------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |



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Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-----------------------|-------------|
| Amount per use | 0.135 kg |
| Exposure duration | 4 h |
| Covers exposure up to | 365 days/yr |
| Use frequency | 1 times/day |

Other conditions affecting consumer exposure

| | |
|----------------------------|---|
| dermal exposure | 420 cm ² (Palm of both hands) |
| Body weight | 70 kg (Adult) |
| Covers use in room size of | 20 m ³ |
| Release fraction to air | 0.05 |
| Inhalation | 1.37 m ³ /h |

7.2.6. Control of consumer exposure: Cleaning activities by customers (Laundry and dish washing products) (PC35)

| | |
|------|-------------------------------|
| PC35 | Washing and cleaning products |
|------|-------------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-----------------------|---------------|
| Amount per use | 0.05 kg |
| Exposure duration | 1 h |
| Covers exposure up to | 365 days/yr |
| Use frequency | 0.5 times/day |

Other conditions affecting consumer exposure

| | |
|----------------------------|---|
| dermal exposure | 420 cm ² (Palm of both hands) |
| Body weight | 70 kg (Adult) |
| Covers use in room size of | 20 m ³ |
| Release fraction to air | 0.001 |
| Inhalation | 1.37 m ³ /h |

7.2.7. Control of consumer exposure: Cleaning activities by customers (Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)) (PC35)



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| | |
|------|-------------------------------|
| PC35 | Washing and cleaning products |
|------|-------------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-----------------------|-------------|
| Amount per use | 0.25 kg |
| Exposure duration | 0.3 h |
| Covers exposure up to | 365 days/yr |
| Use frequency | 1 times/day |

Other conditions affecting consumer exposure

| | |
|----------------------------|---|
| dermal exposure | 420 cm ² (Palm of both hands) |
| Body weight | 70 kg (Adult) |
| Covers use in room size of | 20 m ³ |
| Release fraction to air | 0.001 |
| Inhalation | 1.37 m ³ /h |

7.2.8. Control of consumer exposure: Cleaning activities by customers (Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners))(PC35)

| | |
|------|-------------------------------|
| PC35 | Washing and cleaning products |
|------|-------------------------------|

Product (article) characteristics

| | |
|---------------------------------------|--------|
| Physical form of product | Liquid |
| Concentration of substance in product | 2 % |

Amount used (or contained in articles), frequency and duration of use/exposure

| | |
|-----------------------|-------------|
| Amount per use | 0.035 kg |
| Exposure duration | 4 h |
| Covers exposure up to | 365 days/yr |
| Use frequency | 1 times/day |

Other conditions affecting consumer exposure

| | |
|-----------------|---|
| dermal exposure | 420 cm ² (Palm of both hands) |
|-----------------|---|



Salicylic acid

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| | |
|----------------------------|------------------------|
| Body weight | 70 kg (Adult) |
| Covers use in room size of | 20 m ³ |
| Release fraction to air | 0.05 |
| Inhalation | 1.37 m ³ /h |

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC8a)

| Information for contributing exposure scenario | | |
|---|--------------|-------------------------|
| Maximum local emission to waste water: | 0.068 kg/day | |
| Release fraction to air from process (initial release prior to RMM): | 0 | |
| Release fraction to wastewater from process (initial release prior to RMM): | ≤ 1 | (Default values: ERC8a) |
| Release fraction to soil from process (initial release prior to RMM): | 0 | |

| Protection target | Exposure estimation | PNEC | RCR | Assessment method |
|------------------------|---------------------|------------------|-------|-------------------|
| Freshwater | 0.00581 mg/l | 0.2 mg/l | 0.029 | EUSES v2.1 |
| Marine water | 0.000587 mg/l | 0.02 mg/l | 0.029 | EUSES v2.1 |
| Freshwater sediment | 0.0412 mg/kg dw t | 1.42 mg/kg dw t | 0.029 | EUSES v2.1 |
| Marine water sediment | 0.00417 mg/kg dw t | 0.142 mg/kg dw t | 0.029 | EUSES v2.1 |
| Sewage treatment plant | 0.00428 mg/l | 162 mg/l | 0 | EUSES v2.1 |

7.3.2. Consumer exposure Cleaning activities by customers (Air care, instant action (aerosol sprays)) (PC3)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|--------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |



Salicylic acid

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| | | | |
|---|-----------------------|-------|-------------------|
| Inhalation - Long-term-systemic effects | 3.5 mg/m ³ | 0.875 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.875 | |

7.3.3. Consumer exposure Cleaning activities by customers (Air care, continuous action (solid and liquid)) (PC3)

| Information for contributing exposure scenario | | | |
|--|------------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term-systemic effects | 0.102 mg/kg bw/day | 0.102 | ECETOC TRA worker |
| Inhalation - Long-term-systemic effects | 0.05 mg/m ³ | 0.013 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.115 | |

7.3.4. Consumer exposure Cleaning activities by customers (Polishes, wax / cream (floor, furniture, shoes)) (PC31)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term-systemic effects | 0.6 mg/kg bw/day | 0.6 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.6 | |

7.3.5. Consumer exposure Cleaning activities by customers (Polishes, spray (furniture, shoes)) (PC31)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term-systemic effects | 0.6 mg/kg bw/day | 0.6 | ECETOC TRA worker |
| Inhalation - Long-term-systemic effects | 3.375 mg/m ³ | 0.844 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 1.444 | |

7.3.6. Consumer exposure Cleaning activities by customers (Laundry and dish washing products)(PC35)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term-systemic effects | 0.6 mg/kg bw/day | 0.6 | ECETOC TRA worker |
| Sum RCR - Long-term-systemic effects | | 0.6 | |



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7.3.7. Consumer exposure Cleaning activities by customers (Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)) (PC35)

| Information for contributing exposure scenario | | | |
|--|-------------------|-----|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.6 mg/kg bw/day | 0.6 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.6 | |

7.3.8. Consumer exposure Cleaning activities by customers (Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)) (PC35)

| Information for contributing exposure scenario | | | |
|--|-------------------------|-------|-------------------|
| Route of exposure and type of effects | Exposure estimate | RCR | Method |
| Dermal - Long-term- systemic effects | 0.6 mg/kg bw/day | 0.6 | ECETOC TRA worker |
| Inhalation - Long-term- systemic effects | 0.875 mg/m ³ | 0.219 | ECETOC TRA worker |
| Sum RCR - Long-term- systemic effects | | 0.819 | |

7.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

7.4.1. Environment

| | |
|------------------------|---|
| Guidance - Environment | If scaling reveals a condition of unsafe use (i.e. RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|------------------------|---|

7.4.2. Health

| | |
|-------------------|--|
| Guidance - Health | Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels |
|-------------------|--|