# MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Comission Regulation (EU) No 2020/878 of 18 June 2020

Version No. EN 5.1 Dated: 05.04.2023.

Printed: 30-11-23

# IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1. Product identifier:

MIXTURE IDENTIFICATION: Fragrance, flavour, auto cosmetology, industrial and home chemistry

**MIXTURE CONTAINS:** Aroma Chemicals ~ 44%; Essential Oils ~ 56%; Solvent(s) ~ 0% (Dipropylene

Glycol)

TRADE NAME: Fragrance Coffee MMH 83724

**Product number** 83724

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

**RECOMMENDED USE:** Aromatic ingredient for household chemicals and cosmetics. Manufacturing use only, not for direct

consumption as such.

USES ADVISED AGAINST: Do not use in food.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

**COMPETENT PERSON** 

RESPONSIBLE FOR THE MATERIAL

SAFETY DATA SHEET:

Ekokoza s.r.o. **ADDRESS OF THE** 

MANUFACTURER/SUPPLIER:

**TELEPHONE NUMBER OF THE** 

**MANUFACTURER:** 

**E-MAIL OF THE MANUFACTURER:** eshop@ekokoza.cz

1.4. EMERGENCY CONTACTS:

IN CASE OF INTOXINCATION: Nouzové telefonní číslo: +420224919293, +420224915402 (telefon 24hod/denně)

The national poison information center: +371 67042468;

GERMANY - International emergency number: +49 180 2273-112. Transport Emergency phone number: (24 h service),

+49 621 60-43333;

Fryčovice 297, 73945, Fryčovice IČ: 07508247,

UNITED KINGDOM - National Poisons Information Service (24 h service),

phone: +44 (0) 844-892-0111 (UK only);

FRANCE - INRS FRANCE: phone: +33 (0)1 45 42 59-59.

FOR OTHER EU COUNTRIES, please consult:

http://echa.europa.eu/help/nationalhelp contact en.asp

### **SECTION 2 - HAZARDS IDENTIFICATION**

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to regulation (EC) No 1272/2008 (CLP)

Product definition Mixture

> Aquatic Acute 1 H400

### 2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) (CLP) Hazard pictograms:



Signal word Warning

**Hazard statements** 

H400 Aquatic Acute 1

**Precautionary statements (Prevention and Intervention)** 

P273 Avoid release to the environment.

# **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 SUBSTANCES: Mixture of natural, nature identical and synthetic aromatic products.

3.2 MIXTURES: Mixture of natural and synthetic aromatic ingredients.

CAS: EINECS:

3.2 Hazardous components:

INGREDIENTS	%	CAS No. / EC No. Index No. / REACH No.	Classification REGULATION (EC) No 1272/2008
Benzyl Benzoate	5% -10%	CAS No. 120-51-4 EC No. 204-402-9 Index No. REACH No.01-2119976371-33-xxxx	Aquatic Chronic 2:H411 Aquatic Acute 1:H400 ДуубАсиte Тох. 4 INH ДУБЛ:H332
Benzyl Alcohol FOOD GRADE	2% -3%	CAS No. 100-51-6 EC No. 202-859-9 Index No. REACH No.	
Benzyl Salicylate	0,3% -0,5%	CAS No. 118-58-1 EC No. 204-262-9 Index No. REACH No.01-2119969442-31-xxxx	Skin Sens. 1B:H317 дубл Eye Irrit. 2 :H319 Aquatic Chronic 3 :H412
Musk 50 IPM	0,1% -0,3%	CAS No. 1222-05-5 EC No. 214-946-9 Index No. REACH No.01-2119488227-29-xxxx	Aquatic Chronic 1:H410
Hexyl Cinnamic Aldehyde Alpha	0,1% -0,2%	CAS No. 101-86-0 165184-98-5 EC No. 639-566-4 Index No. REACH No.01-2119533092-50-xxxx	Aquatic Chronic 2:H411 Skin Sens. 1:H317 Aquatic Acute 1:H400
Linalool	0,08% -0,2%	CAS No. 78-70-6 EC No. 201-134-4 Index No. REACH No.01-2119474016-42-xxxx	Skin Sens. 1B:H317 Skin Irrit. 2:H315 Eye Irrit. 2:H319
D-Limonene	0,06% -0,1%	CAS No. 5989-27-5 8028-48-6 EC No. 227-813-5 Index No. REACH No.01-2119529223-47-xxxx	Aquatic Chronic 1:H410 Aquatic Chronic 2:H411 Skin Sens. 1:H317 Flam. Liq. 3:H226 Skin Irrit. 2:H315 Aquatic Acute 1:H400 Asp. Tox. 1 :H304 Aquatic Chronic 3 :H412
Dipropylene Glycol	0,04% -0,06%	CAS No. 25265-71-8 EC No. 246-770-3 Index No. REACH No.01-2119456811-38-0088	·

MSDS Version No. EN 5.1Fragrance Coffee MMH 83724 Printed 30-11-2023

Benzoic Aldehyde (Benzaldehyde)	0,02% -0,04%	CAS No. 100-52-7 EC No. 202-860-4 Index No. REACH No.01-2119455540-44-xxxx	Skin Sens. 1:H317 Acute Tox. 4 ORAL:H302 Skin Irrit. 2:H315 дубл Eye Irrit. 2:H319 STOT SE 3:H335 Aquatic Chronic 3:H412 ДуубАcute Tox. 4 INH ДУБЛ:H332
внт	0,01% -0,02%	CAS No. 128-37-0 EC No. 204-881-4 Index No. REACH No.01-2119480433-40-xxxx	Aquatic Chronic 1:H410 Aquatic Acute 1:H400

# **SECTION 4 - FIRST-AID MEASURES**

**Inhalation** Move affected person to fresh air at once. Get medical attention if any

discomfort continues

**Ingestion** Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical

attention immediately.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water.

Get medical attention if symptoms are severe or persist after washing.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately

with plenty of water. Continue to rinse for at least 15 minutes. Get medical

attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

General information Persons suffering from asthma, eczema or skin problems should avoid contact,

including dermal contact, with this product. See Section 11 for additional

information on health hazards.

# 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

## **SECTION 5 - FIRE-FIGHTING MEASURES**

## 5.1 Extinguishing media:

Suitable extinguishing media Extinguish with the following media: Foam, carbon dioxide or

dry powder.

Unsuitable extinguishing

media

Water.

# 5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic gases or vapours

5.3. Advice for firefighters

Containers close to fire should be removed or cooled with

Protective actions during firefighting wa

Special protective equipment for

water.

firefighters

Wear positive-pressure self-contained breathing apparatus

(SCBA) and appropriate protective clothing.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves,

goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of

ignition near spillage.

## 6.2. Environmental precautions

**Environmental precautions**Do not discharge into drains or watercourses or onto the ground the gr

6.3 Methods and material for containment and cleaning up

#### Methods for cleaning up

Keep combustible materials away from spillage. Eliminate all sources of ignition. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Wash thoroughly after dealing with a spillage

# 6.4. Reference to other sections

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and

**Usage precautions** 

clothing.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight

Storage precautions

# 7.3. Specific end use(s)

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters:

Occupational exposure limits: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits:

INGREDIENTS	CAS No	TWA, 8 hours
Benzyl Alcohol FOOD GRADE	100-51-6	TWA= * mg/m³
Benzoic Aldehyde (Benzaldehyde)	100-52-7	TWA= * mg/m³

<sup>\*</sup> Republic of Latvia Cabinet Regulation No. 325 Adopted 15 May 2007 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces

#### ADDITIONAL INFORMATION:

Information valid at the time of review of safety data sheet.

#### **8.2. EXPOSURE CONTROLS:**

ENGINEERING MEASURES: Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

HYGIENIC MEASURES: When using do not eat, drink or smoke.



GENERAL PROTECTIVE AND HYGIENIC Avoid contact with the eyes. Wash hands during work

**MEASURES:** 

breaks and at the end of the shift. Provide skin protection

plan.

**RESPIRATORY PROTECTION:** 

Avoid excessive inhalation of concentrated vapors. Ensure adequate ventilation. If workers are exposed to high concentrations, they must use appropriate, certified respirators. Wear suitable respiratory protection in case of large scale exposure. Suitable facemask in accordance with

EN 140.

**BODY PROTECTION:** 

Protective clothing. Safety showers should be available in the immediate vicinity of any potential exposure. Wear appropriate protective clothing, overalls or suit, and similar

boots in accordance with EN 365/367.

**EYE PROTECTION:** 

Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. No specific hygiene procedures recommended but good

Hygiene measures

personal hygiene practices should always be observed when

working with chemical products.

HAND PROTECTION:

Chemical protective gloves according to DIN EN 374 with CE-labelling. Suitable material - nitril. 0.13 mm. Indication of permeation breakthrough time – 1 hour. Check the condition of protective gloves after each use for any damages like holes, cuts or tears. Do not wear protective gloves longer than necessary. After use of gloves apply skin-cleaning agents and skin cosmetics. Gloves for mechanical protection do not provide protection against

chemicals.

**RISK MANAGEMENT MEASURES:** 

The operators shall be instructed adequately. The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Homogeneous transparent liquid , opalescence is allowed.
COLOUR	From colorless to brown
ODOUR	Fragrance description
REFRACTIVE INDEX, 20	
°C:	0.9 – 1.8
DENSITY, 20 °C:	0.9 – 1.6 g/cm³
FLASH POINT:	> 61 °C
MELTING POINT/MELTING RANG:	< 0 °C
BOILING POINT:	
FREEZING POINT:	No data available

DECOMPOSITION	
TEMPERATURE:	No data available
SOLUBILITY IN WATER:	Limited solubility
SOLUBILITY IN	
ALCOHOL:	Soluble

9.2. OTHER INFORMATION: No data available

# **SECTION 10: STABILITY AND REACTIVITY**

10.1. REACTIVITY: The product is stable and relatively inert under normal

conditions of use, storage and transport.

Under the conditions of use specified in Section 7, the **10.2. CHEMICAL STABILITY:** 

product is stable.

10.3. POSSIBILITY OF HAZARDOUS

**REACTION:** 

Under normal conditions of use, there is no information on

dangerous reactions.

10.4. CONDITIONS TO AVOID: Contact with incompatible materials.

10.5. INCOMPATIBLE MATERIALS: Strong acids, strong bases, strong oxidants.

10.6. HAZARDOUS DECOMPOSITION

PRODUCTS:

No decomposition product of storage and handling conditions are followed. In case of fire, hazardous gases

may form.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

#### **INHALATION**

Not Classified **Acute toxicity:** 

Corrosion/irritation: Not classified – based on available data, the classification criteria are not met.

Does not contain substances classified as respiratory sensitizer. Not classified -Sensitisation:

based on available data, the classification criteria are not met.

Does not contain carcinogenic substances. Not classified - based on available Carcinogenicity:

data, the classification criteria are not met.

Does not contain mutagenic substances. Not classified – based on available data, Mutagenicity:

the classification criteria are not met.

**SKIN CONTACT:** 

Not Classified **Acute toxicity:** 

**Corrosion/irritation:** Not classified – based on available data, the classification criteria are not met.

Does not contain substances classified as respiratory sensitizer. Not classified -Sensitisation:

based on available data, the classification criteria are not met.

Does not contain carcinogenic substances. Not classified - based on available Carcinogenicity:

data, the classification criteria are not met.

Does not contain mutagenic substances. Not classified – based on available data, Mutagenicity:

the classification criteria are not met.

**EYE CONTACT:** 

Corrosion/irritation: Not classified

**INGESTION:** Acute toxicity:

**Corrosion/irritation:** May cause a feeling of sickness, vomiting and diarrhoea.

Does not contain carcinogenic substances. Not classified – based on available Sensitisation:

data, the classification criteria are not met.

Does not contain carcinogenic substances. Not classified - based on available Carcinogenicity:

data, the classification criteria are not met.

MSDS Version No. EN 5.1Fragrance Coffee MMH 83724 Printed 30-11-2023

Mutagenicity:

Does not contain mutagenic substances. Not classified – based on available data,

the classification criteria are not met.

Not expected to be reprotoxic. Not classified – based on available data, the

classification criteria are not met. Fertility: Not classified – based on available

data, the classification criteria are not met.

# **Toxicological information:**

Reprotoxicity:

Ingredients Name:		LD50	LD50	LC50
	CAS No.	(oral)	(Dermal)	(Inhalation)
Musk 50 IPM	1222-05-5	No data	10 000 mg/kg	No data
D-Limonene	5989-27-5	2 000 mg/kg		
	8028-48-6	bw	No data	No data
Dipropylene Glycol	25265-71-8	No data	No data	2,34 mg/l
Benzoic Aldehyde		1 430 mg/kg	2 000 mg/kg	
(Benzaldehyde)	100-52-7	bw	bw	5 mg/l
BHT	128-37-0	4 465 mg/kg	2 000 mg/kg	No data

11.2. PRIMARY IRRITANT EFFECT: Noo

11.2.1 ENDOCRINE DISRUPTING PROPERTIES: Benzyl Salicylate, Musk 50 IPM, BHT

**11.3. SENSITISATION:** May cause sensitising effect. **11.4 CHRONIC EFFECT:** No chronic effect known.

**11.5 TARGET ORGANS:** No adverse health effects on target organs expected for

finished product.

11.6. CARCINOGENICITY: Finished product is not expected to be carcinogenic.
11.7. MUTAGENICITY: Finished product is not expected to be mutagenic.
11.8. REPROTOXICITY: Finished product is not expected to be reprotoxic.

# **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. TOXICITY:**

No ecotoxicological research has been carried out on this product.

Ecotoxicity - Toxic to aquatic organisms: classified as Aqvatic Acute 1. Based on the calculation data

# **Ingredients Toxicity:**

# **AQUATIC TOXICITY:**

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7
Musk 50 IPM	
1222-05-5	
EC50/48 H	300 μg/L(Aquatic invertebrates)
LC50/96 H	950 μg/L(Fish)
EC50/72H	854 μg/L(Aquatic algae and cyanoba)
D-Limonene	
5989-27-5 80	028-48-6
EC50/48 H	510 mg/l(Aquatic invertebrates)
EC50/24H	840 mg/l(Aquatic invertebrates)
EC50/21da	
ys	188 mg/l(Aquatic invertebrates)
LC50/96 H	720 mg/l(Fish)
EC50/96 H	702 mg/l(Fish)
EC50/72H	320 mg/l(Aquatic algae and cyanoba)
EC50/48 H	250 mg/l(Aquatic algae and cyanoba)
Dipropylene Glycol	
25265-71-8	
EC50/48 H	100 mg/l(Aquatic invertebrates)

	MSDS Version No. EN 5. Triagrance Collee MMH 63724 Printed 50-11-2025
LC50/96 H	5 000 mg/l(Fish)
EC50/72H	100 mg/l(Algae)
Benzoic Alde	hyde (Benzaldehyde)
100-52-7	
EC50/48 H	19,7 mg/l(Aquatic invertebrates)
EC50/24H	50 mg/l(Aquatic invertebrates)
LC50/96 H	13,8 mg/l(Fish)
EC50/72H	33,1 mg/l(Aquatic algae and cyanoba)
BHT	
128-37-0	
LC50/96 H	384,5 μg/L(Fish)
EC50/72H	5 120 μg/L(Algae)
EC50/96 H	758 μg/L(Algae)

### 12.2. PERSISTENCE AND

**DEGRADABILITY:** May cause long-term adverse effects in the aquatic environment.

**ASSESSMENT** 

**BIODEGRADATION AND** 

**ELIMINATION:** No data available

12.3. BIOACCUMULATIVE No further relevant information available. Low potential for

**POTENTIAL** bioaccumulation: (log Powcalculated = 0,02)

	Chemical Name	CAS No.	Partition Coefficient
1	Dipropylene Glycol	25265-71-8	0,0026

**12.4. MOBILITY IN SOIL:** The product is partially soluble in water. Adsorbs to soil and has

low mobility.

GENERAL NOTES: Sewages that contain this product may not be released into the

aquatic environment without preliminary treatments.

This mixture does not contain substances that meet the PBT or

12.5. RESULTS OF PBT UN

**VPVB ASSESSMENT:** 

vPvB criteria of REACH, annex XIII.

12.6. ENDOCRINE

Benzyl Salicylate, Musk 50 IPM, BHT

**DISRUPTING PROPERTIES:** 

#### 12.7. OTHER ADVERSE

**EFFECTS:** 

Global Warming Potential Do not may contribute to the greenhouse effect.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. WASTE TREATMENT METHODS:

Dispose of in accordance with local and national regulations.

**Product residues:** Do not dispose empty pack with waste produced by

households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as

hazardous waste.

Additional warning: None.

**European waste catalogue:** Dispose hazardous waste in accordance with Directive

91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an

official chemical waste depot.

**Local legislation:** Disposal should be in accordance with applicable regional,

national, and local laws and regulations. Local regulations

may be more stringent than regional or national

requirements and must be complied with.

		EUROPEAN WASTE CATALOGUE
EWC CODE	Description	

07 Wastes from organic chemical processes:

07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified

07 07 99 wastes not otherwise specified

**CONTAMINATED PACKAGING:** Do not dispose empty pack with waste produced by

households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as

hazardous waste.

**RECOMMENDATION:** Avoid release to the environment.

# **SECTION 14. TRANSPORT INFORMATION:**

**14.1. UN number** UN 3082

**14.2. UN proper shipping name** UN 3082 Environmentally hazardous substance, liquid,

N.O.S. (Allyl Heptanoate,

7-Acetyl-1,1,3,4,4,6-Hexamethylietraline)

14.3. TRANSPORT HAZARD CLASS

(**ES**):

ADR, IATA, IMDG

**CLASS** 

DANGER LABEL: 9
14.4. PACKING GROUP: |||

ADR, IATA, IMD

14.5. ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT

Yes

14.6. SPECIAL PRECAUTIONS FOR

**USER:** 

Read MSDS and emergency procedures before handling

**14.7. TRANSPORT IN BULK** Not established.

ACCORDING TO ANNEX II OF MARPOL

73/78 AND THE IBC CODE:

Packaged liquids are not considered bulk.

## **SECTION 15: REGULATORY INFORMATION**

15.1. SAFETY, HEALTH AND

**ENVIROMENTAL** 

REGULATIONS/LEGISLATION SPECIFIC

FOR THESUBSTANCE OR MIXTURE:

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and

repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council

Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

DIRECTIVE 2006/11/EC OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community. REGULATION (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

COMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the REACH.

INFORMATION ABOUT LIMITATION OF

**USE:** 

Take note of Directive 94/33/EC on the protection of young

people at work.

Take note of Directive 92/85/EC on the safety and health of

pregnant women at work.

15.2. CHEMICAL SAFETY

**ASSESSMENT:** 

Not applicable.

# **SECTION 16: OTHER INFORMATION**

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in section 2 or 3:

Revisions are mentionned by a black stroke in left margin.

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long-lasting effects
H411	Toxic to aquatic life with long-lasting effects
H412	Harmful to aquatic life with long-lasting effects
P273	Avoid release to the environment.
P501	Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

#### ABBREVIATIONS AND ACRONYMS:

PBT: Persistent, bioaccumulative, toxic

vPvB: Very persistent, very bioaccumulative

EC: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ADR: European Agreement concerning the International Carriage of Dangerous Goods

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median (50 %) lethal concentration

LD50: Median (50%) lethal dose

EC50: Effective concentration, 50 percent

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and

Mixtures

ECHA: European Chemicals Agency, Helsinki (http://echa.europa.eu/home en.asp)

TWA: Time Weighted Average

IBC code: International Bulk Chemical Code

MARPOL: International Convention for the Prevention of Pollution From Ships

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals UN: United Nations

ATE: Acute Toxicity Estimate

The information given in this MSDS was obtained from current and reliable sources. However, these data are provided without any warranty, expressed or implied, regarding their correctness or accuracy. Since the conditions of use, handling, storage, and disposal of this product are beyond control, it is the responsibility of the user both to determine safe conditions for use as well as to assume liability for loss, damage, and expenses arising out of improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS.