

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 1/27/2023 Revision date: 4/29/2025 Supersedes version of: 1/27/2023 Version: 2.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

Substance name : Ethyl safranate (Giv)

IUPAC name : Ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate

EC-No. : 252-335-9 CAS-No. : 35044-59-8 REACH registration No. : 01-2120742165-59

Product code : 23087
Formula : C12H18O2
Product group : Trade product

Other means of identification : Reaction mass of ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate and ethyl 2,6,6-

trimethylcyclohexa-2,4-diene-1-carboxylate and ethyl 6,6-dimethyl-2-methylenecyclohex-3-

enecarboxylate (EC.: 915-634-1)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Professional use,Consumer use

Use of the substance/mixture : Fragrance raw material

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

De Hekserij Spoorstraat 57 8271 RG IJsselmuiden Nederland T +31 383 557 927

hekserij@hekserij.nl, www.hekserij.nl

# 1.4. Emergency telephone number

No additional information available

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315 Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

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#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment.

P280 - Wear protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents and container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type : Multi-constituent
Name : Ethyl safranate (Giv)

CAS-No. : 35044-59-8 EC-No. : 252-335-9

| Name   | Product identifier                     | %        | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|--|--|----------|--|
| Reaction mass of ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate and ethyl 2,6,6-trimethylcyclohexa-2,4-diene-1-carboxylate and ethyl 6,6-dimethyl-2-methylenecyclohex-3-enecarboxylate | EC-No.: 915-634-1                      | 90 – 100 | Skin Irrit. 2, H315<br>Aquatic Chronic 3, H412   |
| Toluene  | CAS-No.: 108-88-3<br>EC-No.: 203-625-9 | < 0.01   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |

Full text of H- and EUH-statements: see section 16

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Irritation.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

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# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

# 8.1.4. DNEL and PNEC

| O. II. DIVEE and I NEO                   |                          |  |  |  |  |
|--|--------------------------|--|--|--|--|
| Ethyl safranate (Giv) (35044-59-8)       |                          |  |  |  |  |
| DNEL/DMEL (Workers)                      |                          |  |  |  |  |
| Long-term - systemic effects, dermal     | 2.8 mg/kg bodyweight/day |  |  |  |  |
| Long-term - systemic effects, inhalation | 9.87 mg/m³               |  |  |  |  |
| DNEL/DMEL (General population)           |                          |  |  |  |  |
| Long-term - systemic effects,oral        | 1 mg/kg bodyweight/day   |  |  |  |  |
| Long-term - systemic effects, inhalation | 1.74 mg/m³               |  |  |  |  |
| Long-term - systemic effects, dermal     | 1 mg/kg bodyweight/day   |  |  |  |  |
| PNEC (Water)                             |                          |  |  |  |  |
| PNEC aqua (freshwater)                   | 3.89 µg/l                |  |  |  |  |
| PNEC aqua (marine water)                 | 0.389 µg/l               |  |  |  |  |
| PNEC aqua (intermittent, freshwater)     | 38.9 μg/l                |  |  |  |  |
| PNEC (Sediment)                          |                          |  |  |  |  |
| PNEC sediment (freshwater)               | 0.504 mg/kg dwt          |  |  |  |  |
| PNEC sediment (marine water)             | 0.0504 mg/kg dwt         |  |  |  |  |
| PNEC (Soil)                              |                          |  |  |  |  |
| PNEC soil                                | 0.098 mg/kg dwt          |  |  |  |  |
| PNEC (Oral)                              | PNEC (Oral)              |  |  |  |  |
| PNEC oral (secondary poisoning)          | 26.67 mg/kg food         |  |  |  |  |
| PNEC (STP)                               | PNEC (STP)               |  |  |  |  |
| PNEC sewage treatment plant              | 10 mg/l                  |  |  |  |  |

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

### Personal protective equipment symbol(s):







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#### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Molecular mass : 194 g/mol

Colour : colourless to pale yellow.

Odour : No data available

Odour threshold : 0.5767 mg/m³

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : <-50 °C Decomposition: 'no' Sublimation: 'no'

Freezing point : No data available

Boiling point : 233 °C Atm. press.: 101,325 kPa Flash point : 88 °C Atm. press.: 101,3 kPa

Auto-ignition temperature : 300 °C

Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : 4.17 Pa Temp.: 20 °C
Relative vapour density at 20 °C : No data available

Relative density : 0.967 Type: 'relative density' Temp.: 20 °C

Density : 0.967 Type: 'density' Temp.: 20 °C

1.0967 Type: 'density' Temp.: 20 °C

Solubility : Water: 143 mg/l Temp.: 20 °C

Partition coefficient n-octanol/water (Log Pow) : 3.4

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

| Reaction mass of ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate and ethyl 2,6,6-trimethylcyclohexa | -2,4-diene-1- |
|--|---------------|
| carboxylate and ethyl 6,6-dimethyl-2-methylenecyclohex-3-enecarboxylate                                  |               |

|               | <u> </u> |  |              |   |  |  |  |  |
|---------------|----------|--|--------------|---|--|--|--|--|
| LD50 oral rat |          |  | > 5000 mg/kg | 3 |  |  |  |  |
| LD50 dermal   |          |  | > 5000 mg/kg | ] |  |  |  |  |

#### Toluene (108-88-3)

| LD50 oral rat      | 5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910 |
|--------------------|--|
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77   |

Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation Not classified : Not classified Respiratory or skin sensitisation Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity Not classified STOT-single exposure : Not classified

#### Toluene (108-88-3)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

# Reaction mass of ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate and ethyl 2,6,6-trimethylcyclohexa-2,4-diene-1carboxylate and ethyl 6,6-dimethyl-2-methylenecyclohex-3-enecarboxylate

| Toluene (108-88-3)         |  |
|----------------------------|--|
|                            | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated |

| LOAEL (oral, rat, 90 days) | 1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)  |

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| Toluene (108-88-3)                       |  |
|--|--|
| NOAEC (inhalation, rat, vapour, 90 days) | 2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |
| STOT-repeated exposure                   | May cause damage to organs (visual system) through prolonged or repeated exposure (inhalation).      |
| Aspiration hazard                        | : Not classified   |

# SECTION 12: Ecological information

# 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

: Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long–term : Harmful to aquatic life with long lasting effects.

(chronic)

EC50 72h - Algae [1]

Reaction mass of ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate and ethyl 2,6,6-trimethylcyclohexa-2,4-diene-1-carboxylate and ethyl 6,6-dimethyl-2-methylenecyclohex-3-enecarboxylate

LC50 - Fish [1] > 2.45 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

EC50 - Crustacea [1] 20.5 mg/l Test organisms (species): Daphnia magna

|   | Pseudokirchneriella subcapitata, Selenastrum capricornutum)               |  |
|---|---|--|
| EC50 72h - Algae [2]  2.42 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |   |  |
| Toluene (108-88-3)  |   |  |
| LC50 - Fish [1]   | 5.5 mg/l Test organisms (species): Oncorhynchus kisutch                   |  |
| LOEC (chronic)  | 2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'    |  |
| NOEC (chronic)  | 0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'    |  |
| NOFC chronic fish   | 1 39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d' |  |

3.89 mg/l Test organisms (species): Raphidocelis subcapitata (previous names:

#### 12.2. Persistence and degradability

| Ethyl safranate (Giv) (35044-59-8)   |  |  |  |  |  |
|--|--|--|--|--|--|
| Persistence and degradability Not rapidly degradable   |  |  |  |  |  |
| Reaction mass of ethyl 2,6,6-trimethylcyclohexa-1,3-ene-1-carboxylate and ethyl 2,6,6-trimethylcyclohexa-2,4-diene-1-carboxylate and ethyl 6,6-dimethyl-2-methylenecyclohex-3-enecarboxylate |  |  |  |  |  |
| Persistence and degradability Not rapidly degradable   |  |  |  |  |  |
| Toluene (108-88-3)   |  |  |  |  |  |
| Persistence and degradability  Not rapidly degradable  |  |  |  |  |  |

#### 12.3. Bioaccumulative potential

| Ethyl safranate (Giv) (35044-59-8)              |     |  |
|---|-----|--|
| Partition coefficient n-octanol/water (Log Pow) | 3.4 |  |

# 12.4. Mobility in soil

No additional information available

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#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG  | IATA          | ADN           | RID           |  |  |  |  |  |
|--|---|---------------|---------------|---------------|--|--|--|--|--|
| 14.1. UN number                        |   |               |               |               |  |  |  |  |  |
| Not regulated for transport            |   |               |               |               |  |  |  |  |  |
| 14.2. UN proper shippin                | 14.2. UN proper shipping name   |               |               |               |  |  |  |  |  |
| Not regulated                          | Not regulated   | Not regulated | Not regulated | Not regulated |  |  |  |  |  |
| 14.3. Transport hazard o               | 14.3. Transport hazard class(es)                                      |               |               |               |  |  |  |  |  |
| Not regulated                          | Not regulated   | Not regulated | Not regulated | Not regulated |  |  |  |  |  |
| 14.4. Packing group                    |   |               |               |               |  |  |  |  |  |
| Not regulated                          | Not regulated   | Not regulated | Not regulated | Not regulated |  |  |  |  |  |
| 14.5. Environmental hazards            |   |               |               |               |  |  |  |  |  |
| Not regulated                          | Not regulated Not regulated Not regulated Not regulated Not regulated |               |               |               |  |  |  |  |  |
| No supplementary information available |   |               |               |               |  |  |  |  |  |

# 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

# **REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) |   |  |  |  |
|--|---|--|--|--|
| Reference code                         | Applicable on   | Entry title or description   |  |  |
| 3(a)                                   | Toluene   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F   |  |  |
| 3(b)                                   | Ethyl safranate (Giv); Reaction mass of ethyl 2,6,6-trimethylcyclohexa- 1,3-ene-1-carboxylate and ethyl 2,6,6- trimethylcyclohexa-2,4- diene-1-carboxylate and ethyl 6,6-dimethyl-2- methylenecyclohex-3- enecarboxylate; Toluene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10  |  |  |
| 3(c)                                   | Ethyl safranate (Giv); Reaction mass of ethyl 2,6,6-trimethylcyclohexa- 1,3-ene-1-carboxylate and ethyl 2,6,6- trimethylcyclohexa-2,4- diene-1-carboxylate and ethyl 6,6-dimethyl-2- methylenecyclohex-3- enecarboxylate          | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1  |  |  |
| 40.                                    | Toluene   | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |  |  |
| 48.                                    | Toluene   | Toluene  |  |  |

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

# **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

# Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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#### **Drug Precursors Regulation (273/2004)**

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name    | CN designation | CAS-No.  | CN code    | Category,<br>Subcategory | Threshold | Annex   |
|---------|----------------|----------|------------|--------------------------|-----------|---------|
| Toluene |                | 108-88-3 | 2902 30 00 | Category 3               |           | Annex I |

#### 15.1.2. National regulations

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC-No.                      | European Community number   |  |
| EC50                        | Median effective concentration  |  |
| EN                          | European Standard   |  |
| IARC                        | International Agency for Research on Cancer   |  |
| IATA                        | International Air Transport Association   |  |
| IMDG                        | International Maritime Dangerous Goods  |  |
| LC50                        | Median lethal concentration   |  |
| LD50                        | Median lethal dose  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |  |
| NOAEL                       | No-Observed Adverse Effect Level  |  |
| NOEC                        | No-Observed Effect Concentration  |  |
| OECD                        | Organisation for Economic Co-operation and Development  |  |
| OEL                         | Occupational Exposure Limit   |  |

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| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| PBT                         | Persistent Bioaccumulative Toxic   |  |
| PNEC                        | Predicted No-Effect Concentration  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |
| SDS                         | Safety Data Sheet  |  |
| STP                         | Sewage treatment plant   |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |
| TLM                         | Median Tolerance Limit   |  |
| VOC                         | Volatile Organic Compounds   |  |
| CAS-No.                     | Chemical Abstract Service number   |  |
| N.O.S.                      | Not Otherwise Specified  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |
| ED                          | Endocrine disruptor  |  |

| Full text of H- and EUH-statements: |  |  |
|-------------------------------------|--|--|
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3      |  |
| Asp. Tox. 1                         | Aspiration hazard, Category 1  |  |
| Flam. Liq. 2                        | Flammable liquids, Category 2  |  |
| Repr. 2                             | Reproductive toxicity, Category 2                                      |  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2         |  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |  |
| H225                                | Highly flammable liquid and vapour.                                    |  |
| H304                                | May be fatal if swallowed and enters airways.                          |  |
| H315                                | Causes skin irritation.  |  |
| H336                                | May cause drowsiness or dizziness.                                     |  |
| H361d                               | Suspected of damaging the unborn child.                                |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure.     |  |
| H412                                | Harmful to aquatic life with long lasting effects.                     |  |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.