

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: SDS-04-EN Issue date: 2/3/2023 Revision date: 2/3/2023 Version: 0.0

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

#### 1.1. Product identifier

Product form : Substance (UVCB)

Naphtha (petroleum), full-range reformed Substance name

Trade name Reformate EC-No. 272-895-8 CAS-No. : 68919-37-9

**REACH** registration No : 01-2119485808-20-XXXX

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

#### 1.2.1. Relevant identified uses

Main use category : Refinery stream, refinery feedstock, feedstock in petrochemical industry.

#### 1.2.2. Uses advised against

No additional information available

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

#### Manufacturer

STAR RAFINERI A.Ş. Siteler Mahallesi Necmettin Giritlioğlu Cad.

SOCAR Türkiye Aliağa Yönetim Binası No:6/1

Aliağa-İzmir/Türkiye

T + 90 232 616 12 40 (8 lines) - F + 90 232 616 12 48

sds@socar.com.tr

### 1.4. Emergency telephone number

**Emergency number** : +90 232 616 12 40 (8 lines)

Operating hours: 08:00 - 17:00

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

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

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

Flammable liquids, Category 1 H224 Aspiration hazard, Category 1 H304 Skin corrosion/irritation, Category 2 H315 Specific target organ toxicity - Single exposure, Category 3, Narcosis H336 Germ cell mutagenicity, Category 1B H340 Carcinogenicity, Category 1B H350 Reproductive toxicity, Category 2 H361

Hazardous to the aquatic environment - Chronic Hazard, Category 2 H411

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

### Adverse physicochemical, human health and environmental effects

Extremely flammable liquid and vapour. May cause cancer. May cause genetic defects. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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### 2.2. Label elements

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

Hazard pictograms (CLP)

GHS02 GHS07 GHS08 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H224 - Extremely flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H340 - May cause genetic defects.

H350 - May cause cancer.

H361 - Suspected of damaging fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 - Do NOT induce vomiting.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

### 2.3. Other hazards

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

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

# 3.1. Substances

Substance type : UVCB

| Name                                     | Product identifier  | %   | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|--|---|-----|--|
| Naphtha (petroleum), full-range reformed | CAS-No.: 68919-37-9<br>EC-No.: 272-895-8<br>REACH No: 01-2119485808-20-XXXX | 100 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

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

# 3.2. Mixtures

Not applicable

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

#### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

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

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all 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 : Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after ingestion : Risk of lung oedema.

## 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

Fire hazard : Extremely flammable liquid and vapour.

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 : No open flames, no sparks, and no smoking. Only qualified personnel equipped with

suitable protective equipment may intervene. Avoid breathing

dust/fume/gas/mist/vapours/spray.

# 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. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

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.

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

### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures

Separate working clothes from town clothes. Launder separately. 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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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

No additional information available

### **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

| Reformate (68919-37-9)                |               |
|---------------------------------------|---------------|
| DNEL/DMEL (Workers)                   |               |
| Acute - systemic effects, inhalation  | 1286.4 mg/m³  |
| Acute - local effects, inhalation     | 1066.67 mg/m³ |
| Long-term - local effects, inhalation | 837.5 mg/m³   |
| DNEL/DMEL (General population)        |               |
| Acute - systemic effects, inhalation  | 1152 mg/m³    |
| Acute - local effects, inhalation     | 640 mg/m³     |
| Long-term - local effects, inhalation | 178.57 mg/m³  |

# 8.1.5. Control banding

No additional information available

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# 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:

Wear respiratory protection. Wear respiratory protection. Wear foot protection.

### Personal protective equipment symbol(s):











#### 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

Odour

### 8.2.2.3. Respiratory protection

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 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 Colour Colourless Appearance Colorless liquid

: Hydrocarbon / Aromatic Odour threshold : Not available

Melting point : < (-60) °C Freezing point : Not available

Boiling point : 25 - 200 °C @ 101,325 kPa

Flammability : Not applicable : Not available **Explosive limits** : 1.4 % Lower explosion limit Upper explosion limit : 7.6 % : < (-40) °C Flash point 280 - 470 °C Auto-ignition temperature Decomposition temperature Not available Not available рΗ Viscosity, kinematic < 1 mm<sup>2</sup>/s @ 37.8°C.

Not available Partition coefficient n-octanol/water (Log Kow) Not available

Vapour pressure : 4 – 240 kPa @ 37.8°C.

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Vapour pressure at 50 °C : Not available

Density : Not available

Relative density : 0.62 – 0.88 @ 15 °C

Relative vapour density at 20 °C : Not available

Particle characteristics : Not applicable

#### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Extremely flammable liquid and vapour.

### 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

| Reformate (68919-37-9)                             |                         |
|--|-------------------------|
| LD50 oral rat                                      | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit                                 | > 2000 mg/kg            |
| LC50 Inhalation - Rat > 5610 mg/m³                 |                         |
| Skin correcion/irritation - Causes skin irritation |                         |

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

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer. May cause cancer.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

| Reformate (68919-37-9) |                      |                                    |
|------------------------|----------------------|------------------------------------|
|                        | STOT-single exposure | May cause drowsiness or dizziness. |

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STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Reformate (68919-37-9)

Viscosity, kinematic < 1 mm²/s @ 37.8°C.

### 11.2. Information on other hazards

No additional information available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

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

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

# 12.7. 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.

Additional information : Flammable vapours may accumulate in the container.

# **SECTION 14: Transport information**

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

| ADR                              | IMDG                             | IATA                             | ADN                              | RID                              |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 14.1. UN number or ID n          | 14.1. UN number or ID number     |                                  |                                  |                                  |
| UN 1268                          | UN 1268                          | UN 1268                          | UN 1268                          | UN 1268                          |
| 14.2. UN proper shippin          | 14.2. UN proper shipping name    |                                  |                                  |                                  |
| PETROLEUM<br>DISTILLATES, N.O.S. | PETROLEUM<br>DISTILLATES, N.O.S. | PETROLEUM<br>DISTILLATES, N.O.S. | PETROLEUM<br>DISTILLATES, N.O.S. | PETROLEUM<br>DISTILLATES, N.O.S. |

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| ADR   | IMDG   | IATA  | ADN   | RID   |  |
|---|--|---|---|---|--|
| Transport document descr  | Transport document description   |   |   |   |  |
| UN 1268 PETROLEUM<br>DISTILLATES, N.O.S., 3, I,<br>(D/E),<br>ENVIRONMENTALLY<br>HAZARDOUS | UN 1268 PETROLEUM<br>DISTILLATES, N.O.S., 3, I,<br>MARINE<br>POLLUTANT/ENVIRONME<br>NTALLY HAZARDOUS | UN 1268 PETROLEUM<br>DISTILLATES, N.O.S., 3, I,<br>ENVIRONMENTALLY<br>HAZARDOUS | UN 1268 PETROLEUM<br>DISTILLATES, N.O.S., 3, I,<br>ENVIRONMENTALLY<br>HAZARDOUS | UN 1268 PETROLEUM<br>DISTILLATES, N.O.S., 3, I,<br>ENVIRONMENTALLY<br>HAZARDOUS |  |
| 14.3. Transport hazard  | class(es)  |   |   |   |  |
| 3   | 3  | 3   | 3   | 3   |  |
| 3   | 3  | **************************************  | 3   | 3   |  |
| 14.4. Packing group   |  |   |   |   |  |
| I   | I  | I   | I   | I   |  |
| 14.5. Environmental haz   | 14.5. Environmental hazards  |   |   |   |  |
| Dangerous for the environment: Yes  | Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes                                       | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  |  |
| No supplementary information  | No supplementary information available   |   |   |   |  |

### 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : F1 Special provisions (ADR) : 664 Limited quantities (ADR) : 500ml Excepted quantities (ADR) : E3 : P001 Packing instructions (ADR) Mixed packing provisions (ADR) : MP7, MP17 Portable tank and bulk container instructions (ADR) : T11 Portable tank and bulk container special provisions : TP1, TP8

(ADR)

Tank code (ADR) : L4BN : FL Vehicle for tank carriage Transport category (ADR) : 1 Special provisions for carriage - Operation (ADR) S2, S20 Hazard identification number (Kemler No.) 33 Orange plates

33 1268

Tunnel restriction code (ADR) : D/E

### Transport by sea

Limited quantities (IMDG) : 500 ml Excepted quantities (IMDG) : E3 Packing instructions (IMDG) : P001 Tank instructions (IMDG) : T11 Tank special provisions (IMDG) : TP1, TP8 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-E Stowage category (IMDG) : E

Properties and observations (IMDG) : Immiscible with water.

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#### Air transport

PCA Excepted quantities (IATA) : E3 PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : 351 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 361 : 30L CAO max net quantity (IATA) : A3 Special provisions (IATA) ERG code (IATA) : 3H

#### Inland waterway transport

Classification code (ADN) : F1
Limited quantities (ADN) : 500 ml
Excepted quantities (ADN) : E3
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1
Limited quantities (RID) : 500ml
Excepted quantities (RID) : E3
Packing instructions (RID) : P001
Mixed packing provisions (RID) : MP7, MP17
Portable tank and bulk container instructions (RID) : T11
Portable tank and bulk container special provisions : TP1, TP8

(RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 1
Hazard identification number (RID) : 33

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

| EU restriction list (REACH Annex XVII) |               |   |
|--|---------------|---|
| Reference code                         | Applicable on | Entry title or description  |
| 28.                                    | Reformate     | Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.   |
| 29.                                    | Reformate     | Substances which are classified as germ cell mutagen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 3 or Appendix 4, respectively.  |
| 3(a)                                   | Reformate     | 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)                                   | Reformate     | 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 |

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| EU restriction list (REACH Annex XVII) |               |  |
|--|---------------|--|
| Reference code                         | Applicable on | Entry title or description   |
| 3(c)                                   | Reformate     | 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.                                    | Reformate     | 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. |

Reformate is not on the REACH Candidate List

Reformate is not on the REACH Annex XIV List

Reformate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Reformate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Reformate is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### 15.1.2. National regulations

#### Germany

**Employment restrictions** 

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV) Storage class (LGK, TRGS 510) Joint storage table  Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
 Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 9162)
 Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

LGK 3 - Flammable liquids

| l | LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
|---|----------|---------|----------|----------|-----------|
| ı | _GK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| l | _GK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| L | _GK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| L | _GK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

Joint storage not permitted for : LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2,

LGK 6.1B, LGK 6.2, LGK 7

Joint storage with restrictions permitted for : LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13

: LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13

Netherlands

Joint storage permitted for

ABM category : Z(2) - biodegradable substances with hazardous properties for humans and the

: Reformate is listed

environment (carcinogenicity/ mutagenicity/reprotoxicity/bioacumulative potential or toxicity)

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling

: Reformate is listed

The substance is not listedThe substance is not listed

: The substance is not listed

Denmark

Classification remarks

**Danish National Regulations** 

: Emergency management guidelines for the storage of flammable liquids must be followed

: Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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#### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

Chemicals Ordinance (SR 813.11) : Group 1

# 15.2. Chemical safety assessment

A 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   |  |
| 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  |  |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| N.O.S.                      | Not Otherwise Specified                  |
| vPvB                        | Very Persistent and Very Bioaccumulative |
| ED                          | Endocrine disrupting properties          |

Data sources

: ECHA (European Chemicals Agency). Supplier's safety documents. REGULATION (EC) No 1272/2008 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.

| Full text of H- and EUH-statements: |  |  |
|-------------------------------------|--|--|
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2      |  |
| Asp. Tox. 1                         | Aspiration hazard, Category 1  |  |
| Carc. 1B                            | Carcinogenicity, Category 1B   |  |
| Flam. Liq. 1                        | Flammable liquids, Category 1  |  |
| H224                                | Extremely flammable liquid and vapour.                                 |  |
| H304                                | May be fatal if swallowed and enters airways.                          |  |
| H315                                | Causes skin irritation.  |  |
| H336                                | May cause drowsiness or dizziness.                                     |  |
| H340                                | May cause genetic defects.   |  |
| H350                                | May cause cancer.  |  |
| H361                                | Suspected of damaging fertility or the unborn child.                   |  |
| H411                                | Toxic to aquatic life with long lasting effects.                       |  |
| Muta. 1B                            | Germ cell mutagenicity, Category 1B                                    |  |
| Repr. 2                             | Reproductive toxicity, Category 2                                      |  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |  |

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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