

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.02.2023

Version number 113.01 (replaces version 113.00)

Revision: 26.01.2023

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

- 1.1 Product identifier

- Trade name **Emulsionsspalter 52**

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

No further relevant information available.

- **Application of the substance / the mixture** Water treatment

- 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

PERKUTE - Maschinenbau GmbH
Düsterbergstr. 10
D-48432 Rheine

Tel. ++ 49 / 59 71 / 80 81 68 - 0

Fax ++ 49 / 59 71 / 80 81 68 - 1

E-Mail: info@perkute.de

- **Informing department:** Product safety department

- 1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS05 GHS07 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**

didecyldimethylammonium chloride

propan-2-ol

- **Hazard statements**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

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- Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P281 Use personal protective equipment as required.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**- Description:** Mixture of the substances listed below with harmless additions**- Dangerous components:**

CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6 Reg.nr.: 01-2119945987-15	didecyldimethylammonium chloride Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302, EUH071	25-50%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥20-≤25%

- Regulation (EC) No 648/2004 on detergents / Labelling for contents

cationic surfactants

≥30%

- Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures**- General advice:**

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation Supply fresh air; consult doctor in case of symptoms.**- After skin contact**

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact

Use eye protection.

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- After swallowing

Rinse out mouth and then drink plenty of water.

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Do not induce vomiting; instantly call for medical help.

- 4.2 Most important symptoms and effects, both acute and delayed

Irritant effect on skin, eyes and respiratory organs.

- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.

- 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Nitrogen oxides (NO_x)

carbon monoxide (CO)

- 5.3 Advice for firefighters

- Protective equipment: Wear self-contained breathing apparatus.

- Additional information

Endangered containers in the surrounding area should be cooled with a water-hose.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep off unprotected persons

Keep away from ignition sources

Ensure adequate ventilation

- 6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

Inform respective authorities in case product reaches water or sewage system.

- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 6.4 Reference to other sections Danger of explosion

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with eyes and skin.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

Protect against direct sunlight, other sources of heat and ignition.

Store in cool, dry conditions in well sealed containers.

- Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

- Information about storage in one common storage facility:

Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.

- Further information about storage conditions:

Store container in a well ventilated position.

Store in a cool place.

- Storage class 3 (VCI - Konzept, 2007)

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs

67-63-0 propan-2-ol

Oral	DNEL (population)	26 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	888 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	319 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	500 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	89 mg/m ³ (Long-term, systemic effects)

- PNECs

67-63-0 propan-2-ol

PNEC water	140,9 mg/l (freshwater)
	140,9 mg/l (marine water)
PNEC	2.251 mg/l (sewage plant)
PNEC sediment	552 mg/kg dw (freshwater)
	552 mg/kg dw (marine water)
PNEC	140,9 (intermittent releases)
PNEC soil	28 mg/kg (soil)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Appropriate engineering controls

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

- Individual protection measures, such as personal protective equipment

- General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- Breathing equipment: Use breathing protection in case of insufficient ventilation.

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- **Recommended filter device for short term use:** Combination filter A-P2
- **Hand protection**
Protective gloves (EN 374).
Check the permeability prior to each renewed use of the glove.
- **Material of gloves**
Nitrile rubber, NBR
Recommended thickness of the material: $\geq 0,7$ mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Change gloves if notice sign of disenchantment.
Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.
- **Eye/face protection** Tightly sealed safety glasses.
- **Body protection:**
Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Light yellow
- **Smell:** nach Isopropanol
- **Melting point/freezing point:** <0 °C
- **Boiling point or initial boiling point and boiling range** >80 °C
- **Lower and upper explosion limit**
- **Lower:** 2 Vol %
- **Upper:** 12,7 Vol %
- **Flash point:** 27 °C (DIN 51755)
- **Ignition temperature:** 350 °C
- **pH at 20 °C** 8
- **pH-value:**
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **dynamic at 20 °C:** 25 mPas
- **Solubility**
- **Water:** Fully miscible
- **Vapour pressure at 20 °C:** 48 hPa (67-63-0 propan-2-ol)
- **Density and/or relative density**
- **Density at 20 °C** 0,89 g/cm³ (DIN 51757)
- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.

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- Explosive properties:	<i>Product is not explosive. However, formation of explosive air/steam mixtures is possible.</i>
- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	
<i>Flammable liquid and vapour.</i>	
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:** In case of fire, formation of nitrogen oxides possible.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity**
Harmful if swallowed.

- **LD/LC50 values that are relevant for classification:**

7173-51-5 didecyldimethylammonium chloride

Oral	LD50	238 mg/kg (rat)
Dermal	LD50	3.342 mg/kg (rabbit)

67-63-0 propan-2-ol

Oral	LD50	5.840 mg/kg (rat) (OECD 401)
		4.570 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit)

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Inhalative	LC 50 / 4 h	13.400 mg/kg (rab) 30 mg/l (rat)
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- Skin corrosion/irritation

Causes severe skin burns and eye damage.

- Serious eye damage/irritation

Causes serious eye damage.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**- Germ cell mutagenicity** Based on available data, the classification criteria are not met.**- Carcinogenicity** Based on available data, the classification criteria are not met.**- Reproductive toxicity** Based on available data, the classification criteria are not met.**- STOT-single exposure**

May cause drowsiness or dizziness.

- STOT-repeated exposure Based on available data, the classification criteria are not met.**- Aspiration hazard** Based on available data, the classification criteria are not met.**- Other information (about experimental toxicology):**

No experimental indications of mutagenic effects (Ames test negative).

- STOT-repeated exposure:**67-63-0 propan-2-ol**

Oral | NOAEL | 900 mg/kg (rat) ((90d) OECD 408)

- 11.2 Information on other hazards**- Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity**- Aquatic toxicity:****7173-51-5 didecyldimethylammonium chloride**

LC 50 / 96 h | 0,19 mg/l (Pimephales promelas)

EC 50 / 48 h | 0,062 mg/l (Daphnia magna)

EC 50 / 96 h | 0,026 mg/l (Pseudokirchneriella subcapitata)

EC 50 / 72 h | 0,33 mg/l (Scenedesmus subspicatus)

NOEC | 0,032 mg/l (Danio rerio) (34d)

| 0,01 mg/l (Daphnia magna) (21d)

EC 10 / 12 h | 0,1 mg/l (Pseudomonas putida)

EC 10 / 16 h | 0,13 mg/l (Pseudomonas putida)

67-63-0 propan-2-ol

LC 50 / 96 h | >10.000 mg/l (Pimephales promelas) (OECD 203 (Acute toxicity - fish))

LC 50 / 48 h | >100 mg/l (Leuciscus idus)

EC 50 / 48 h | >100 mg/l (Daphnia magna)

EC 50 / 16 h | 1.050 mg/l (Pseudomonas putida) (DIN 38412 T.8)

EC 50 / 72 h | >100 mg/l (Scenedesmus subspicatus)

- 12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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7173-51-5 didecyldimethylammonium chloride	
DOC - Elimination	90 % (OECD 301A)
Biodegradability	72 % (OECD 301 B)
67-63-0 propan-2-ol	
Biodegradability	49 % /BOD/ThBOD
Biodegradability	53 % /5 d, BSB5/CS (92/69/EG (L383) C.5 * Abbaubarkeit)
CSB	2,23 mg O ₂ /g (Methode : Verordnung (EC) Nr. 440/2008, Anhang, C.)
BSB5	1,72 mg O ₂ /g (Methode : Verordnung (EC) Nr. 440/2008, Anhang, C.)

- **Other information:** The product is readily biodegradable.
- **12.3 Bioaccumulative potential** No bioaccumulation
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**

- **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

7173-51-5 didecyldimethylammonium chloride	
EC 50	11 mg/l (activated sludge (method OECD 209))

- **Additional ecological information:**

- **General notes:**

Also poisonous for fish and plankton in water bodies.

Danger to drinking water if even small quantities leak into soil.

Water danger class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

- **Waste disposal key number:**

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **Uncleaned packagings:**

- **Recommendation:**

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.

Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Caution: Leftovers in the containers may cause the risk of explosion.

Uncleaned containers should not be perforated, cut or welded.

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- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

<ul style="list-style-type: none"> - 14.1 UN number or ID number - ADR/RID/ADN, IMDG, IATA 	<p>UN2920</p>
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR/RID/ADN - IMDG - IATA 	<p>2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS</p> <p>CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTANT</p> <p>CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL))</p>
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR/RID/ADN - Class - Label 	<p>8 (CF1) Corrosive substances. 8+3</p>
<ul style="list-style-type: none"> - IMDG - Class - Label 	<p>8 Corrosive substances. 8/3</p>
<ul style="list-style-type: none"> - IATA - Class - Label 	<p>8 Corrosive substances. 8 (3)</p>
<ul style="list-style-type: none"> - 14.4 Packing group - ADR/RID/ADN, IMDG, IATA 	<p>II</p>
<ul style="list-style-type: none"> - 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR/RID/ADN): 	<p>Product contains environmentally hazardous substances: didecyldimethylammonium chloride</p> <p>Yes</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Kemler Number: - EMS Number: - Stowage Category - Stowage Code 	<p>Warning: Corrosive substances.</p> <p>83</p> <p>F-E, S-C</p> <p>E</p> <p>SW1 Protected from sources of heat. SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> - 14.7 Maritime transport in bulk according to IMO instruments 	<p>Not applicable.</p>

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- Transport/Additional information:	
- ADR/RID/ADN	1L
- Limited quantities (LQ)	Code: E2
- Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- IMDG	1L
- Limited quantities (LQ)	Código E4
- Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 8 (3), II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

- Hazard pictograms



GHS02 GHS05 GHS07 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

didecyldimethylammonium chloride

propan-2-ol

- Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P403+P235 Store in a well-ventilated place. Keep cool.

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P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**
 E1 Hazardous to the Aquatic Environment
 P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- Regulation (EU) No 649/2012

7173-51-5 didecyldimethylammonium chloride

Annex I Part 1

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- National regulations

- Information about limitation of use:

Employment restrictions concerning young persons must be observed.

- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Application:

Directions for use: please refer to the Technical Information Sheet

Only for industrial applications.

- UFI market placements:

- Relevant phrases

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

- Department issuing data specification sheet: see item 1: Informing department

- Version number of previous version: 113.00

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LEV: Local Exhaust Ventilation

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

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RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- * **Data compared to the previous version altered.**

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