Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.02.2017

Version number 107

Revision: 03.02.2017

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
- Informing department: Product safety department
- **1.4 Emergency telephone number:** Poison Control Center, Mainz Tel. 00 49 / 61 31 / 19 240

Tel. ++ 49 / 59 71 / 80 81 68 - 0 Fax ++ 49 / 59 71 / 80 81 68 - 1 E-Mail: info@perkute.de

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.
Skin Corr. 1B Eye Dam. 1 STOT SE 3 Aquatic Acute 1	H314 H318 H336 H400	Causes severe skin burns and eye damage. Causes serious eye damage. May cause drowsiness or dizziness. Very toxic to aquatic life.

- 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
- 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.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 Procautionary statements
- H411 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.

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P281	Use personal protective equipment as required.
P303+P361+P353	FIF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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).
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
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	didecyldimethylammonium chloride	50%	
EINECS: 230-525-2 Reg.nr.: 01-2119945987-15	Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302		
CAS: 67-63-0	propan-2-ol	10-25%	
EINECS: 200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336		
Reg.nr.: 01-2119457558-25			

- 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.

Do not induce vomiting; instantly call for medical help.

- **4.2 Most important symptoms and effects, both acute and delayed** Irritant effect to skin, eyes and respiratory organs.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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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 (NOx)

- 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.
- 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 harzardous substances
- Information about storage in one common storage facility: Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.

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- 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

- Additional information about design of technical systems: Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.
- 8.1 Control parameters
- Components with critical values that require monitoring at the workplace:

67-63-0 propan-2-ol (10-25%)

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

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

- 8.2 Exposure controls
- 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.
- Recommended filter device for short term use:
- Combination filter A-P2 Take care of limitations and rules for the use of breathing protection equipment (BGR 190).
- **Protection of hands:** Protective gloves.

Check the permeability prior to each anewed use of the glove.

- Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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 protection: Tightly sealed safety glasses.
- Body protection:

Standard proctective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear inpenetrable protective clothing against this solvent.

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SECTION 9: Physical and chemical properties		
 9.1 Information on basic phys General Information Appearance: Form: Colour: Smell: 	ical and chemical properties Fluid Light yellow like isopropanol	
- pH-value (10 g/l) at 20 °C:	6.5 - 8	
- Change in condition Melting point/Melting range: Boiling point/Boiling range:		
- Flash point:	29 °C (DIN 51755)	
- Ignition temperature:	350 °C	
- Self-inflammability:	Product is not selfigniting.	
- Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.	
- Critical values for explosion: Lower: Upper:	2.0 Vol % 12.7 Vol % (Higher and lower level for individual components)	
- Vapour pressure at 20 °C:	43 hPa	
- Density at 20 °C	0.89 g/cm³ (DIN 51757)	
 Solubility in / Miscibility with Water: 	Fully miscible	
- Viscosity: dynamic at 20 °C: - 9.2 Other information	25 mPas No further relevant information available.	

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: Formation of nitrogen oxides (NOx) in case of fire.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity

Harmful if swallowed.

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(Contd. of page 5) - LD/LC50 values that are relevant for classification: 7173-51-5 didecyldimethylammonium chloride Oral LD50 238 mg/kg (rat) LD50 Dermal 3342 mg/kg (rab) 67-63-0 propan-2-ol LD50 4570 mg/kg (rat) Oral Dermal LD50 > 2000 mg/kg (rab) 13400 mg/kg (rab) Inhalative LC 50 / 4 h 30 mg/l (rat)

- Primary irritant effect:
- 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.
- Other information (about experimental toxicology):
- No experimental indications of mutagenic effects (Ames test negative).
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:					
7173-51-5 didecyldimethylammonium chloride					
EC 10 / 12 h	EC 10 / 12 h 0.1 mg/l (Pseudomonas putida)				
EC 10 / 16 h	0.13 mg/l (Pseudomonas putida)				
EC 50 / 48 h 0.062 mg/l (Daphnia magna)					
EC 50 / 72 h	0.33 mg/l (Scenedesmus subspicatus)				
EC 50 / 96 h	0.026 mg/l (Pseudokirchneriella subcapitata)				
LC 50 / 96 h	0.19 mg/l (Pimephales promelas)				
NOEC	0.032 mg/l (Danio rerio) (34d)				
	0.010 mg/l (Daphnia magna) (21d)				
67-63-0 propan-2-ol					
EC 50 / 48 h	> 100 mg/l (Daphnia magna)				
EC 50 / 72 h	> 100 mg/l (Scenedesmus subspicatus)				
LC 50 / 48 h	> 100 mg/l (Leuciscus idus)				
- 12.2 Persistence and degradability					
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(Contd. of page 6) 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. **7173-51-5 didecyldimethylammonium chloride** Biolog. Abbaubarkeit 72 % (OECD 301 B)

DOC - Elimination 90 % (OECD 301A)

- Other information: The product is readily biodegradable.

- 12.3 Bioaccumulative potential No bioaccumulation

- 12.4 Mobility in soil No further relevant information available.

- Ecotoxical 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 hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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.

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

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SECTION 14: Transport information	
- 14.1 UN-Number - ADR, IMDG, IATA	UN2920
- 14.2 UN proper shipping name - ADR	2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL))
- IMDG - IATA	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTANT CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL))
- 14.3 Transport hazard class(es)	
- ADR - Class - Label	8 (CF1) Corrosive substances. Corrosive substances. 8+3
- IMDG, IATA	
- Class - Label	8 Corrosive substances. 8+3
- 14.4 Packing group - ADR, IMDG, IATA	11
- 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR):	Yes Symbol (fish and tree) Symbol (fish and tree)
- 14.6 Special precautions for user - Kemler Number: - EMS Number:	Warning: Corrosive substances. 83 F-E,S-C
- 14.7 Transport in bulk according to Annex I Marpol and the IBC Code	l of Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Transport category - Tunnel restriction code	1L 2 D/E
- UN "Model Regulation":	UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S. (didecyldimethylammonium chloride, ISOPROPANOL (ISOPROPYL ALCOHOL)), 8 (3), II, ENVIRONMENTALLY HAZARDOUS
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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



- 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.

H400 Very toxic to aquatic life.

H411 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/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).
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- 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

- 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. H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

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(Contd. of page 9) H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. - Department issuing data specification sheet: see item 1: Informing department - 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 RPE: Respiratory Protective Equipment RCR: Risk Characterisation Ratio (RCR= PEC/PNEC) ADR: Accord européen sur le transport 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 LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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. GB