

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

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

- 1.1 Product identifier

- Trade name **Demulgator 53**

- Other trade names:

- UFI: DF00-Q08K-C002-4DAM

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

- Restrictions on use:

Restrictions on use according to REGULATION (EC) No 1907/2006 ANNEX XVII apply to this product (see section 15).

- 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

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 RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure.
Route of exposure: Oral.

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



GHS05 GHS07 GHS08 GHS09

- Signal word **Danger**

- Hazard-determining components of labelling:

didecyldimethylammonium chloride

ethane-1,2-diol

Benzol, 1,1'-oxybis-, tetrapropylenderivate, sulfoniert, Natriumsalz

- Hazard statements

H302 Harmful if swallowed.

(Contd. on page 2)

EUE

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 1)

H314 Causes severe skin burns and eye damage.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

Contains mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture). May produce an allergic reaction.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable**- vPvB:** Not applicable**- Determination of endocrine-disrupting properties** Not applicable**SECTION 3: Composition/information on ingredients****- 3.2 Mixtures****- Description:** Mixture of the following substances with non-hazardous additions.**- Dangerous components:**

CAS: 7173-51-5 EINECS: 230-525-2 Reg.nr.: 01-2119945987-15	didecyltrimethylammonium chloride Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302, EUH071	25-50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethane-1,2-diol STOT RE 2, H373; Acute Tox. 4, H302 substance with a Community workplace exposure limit	10-25%
CAS: 119345-04-9 Reg.nr.: 01-2119492361-39	Benzol, 1,1'-oxybis-, tetrapropylenderivate, sulfoniert, Natriumsalz Eye Dam. 1, H318; Aquatic Chronic 2, H411	≤1%
EC number: 911-418-6 Reg.nr.: 01-2120764691-48	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317: C ≥ 0,0015 % substance with a Community workplace exposure limit	≥0,00025-<0,0015%

(Contd. on page 3)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 2)

- SVHC

This preparation does not contain any substances of very high concern (SVHC) in a concentration of ≥ 0.1 % according to Regulation (EC) 1907/2006, Article 57.

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

- Composition/Ingredients 15 - 30 % cationic surfactants,

* SECTION 4: First aid measures

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

Instantly remove any clothing soiled by the product.

In case of persistent symptoms receive medical treatment.

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

- After skin contact

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

- After eye contact

Use eye protection.

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

- After swallowing

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Do not induce vomiting. Drink plenty of water. Call for medical help.

- 4.2 Most important symptoms and effects, both acute and delayed Irritation of respiratory tracts.

- 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 Coordinate fire extinguishing measures with the surroundings.

- 5.2 Special hazards arising from the substance or mixture

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 Cool endangered containers in the vicinity with a water spray jet.

* SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Put on protective equipment and keep unprotected persons away.

- 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

In case of release of larger quantities, inform competent authorities.

- 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 point 13.

- 6.4 Reference to other sections

See Section 7 for information on safe handling

(Contd. on page 4)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 3)

See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

* SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/extraction at the workplace.

Prevent formation of aerosols.

Prevent eye and skin contact.

- **Information about protection against explosions and fires:** No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities

- **Storage** Store in cool, dry conditions in well sealed containers.

- Requirements to be met by storerooms and containers:

Observe laws and regulations on the storage and use of substances hazardous to water.

Store in the delivery container or in PE containers.

- Information about storage in one common storage facility:

Observe regulations / technical rules for the storage of flammable liquids.

Store away from foodstuffs.

- Further information about storage conditions:

Store container in a well ventilated position.

Store in a cool place.

- **Storage class** 8 B L (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:

107-21-1 ethane-1,2-diol

AGW (Germany) Long-term value: 26 mg/m³, 10 ppm
2(l);DFG, EU, H, Y, 11

IOELV (EU) Short-term value: 104 mg/m³, 40 ppm
Long-term value: 52 mg/m³, 20 ppm
Skin

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)

MAK (Germany) Long-term value: 0,2E mg/m³
Sh
vgl. Abschn. Xc

- DNELs

107-21-1 ethane-1,2-diol

Dermal	DNEL (worker)	106 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	53 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	35 mg/m ³ (Long-term, local effects)
	DNEL (population)	7 mg/m ³ (Long-term, local effects)

- PNECs

107-21-1 ethane-1,2-diol

PNEC water	10 mg/l (intermittent releases)
	10 mg/l (freshwater)

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 4)

	1 mg/l (marine water)
PNEC sediment	20,9 mg/kg dw (freshwater)
PNEC sediment	37 mg/kg (freshwater)
	3,7 mg/kg (marine water)
PNEC STP	199,5 mg/l (sewage plant)
PNEC soil	1,53 mg/kg (soil)

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

- 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- **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.

Respiratory protection in case of release of vapours/aerosols

- **Recommended filter device for short term use:** Combination filter A-P2

- **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

Change protective gloves if you notice signs of wear.

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection** Tightly sealed safety glasses.

- **Body protection:**

Standard protective work clothing. Chemical resistant safety shoes or boots. If skin contact may occur, wear impermeable protective clothing for this solution.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- **General Information**

- **Physical state**

Liquid

- **Colour:**

Light yellow

- **Smell:**

Not determined

- **Odour threshold:**

Not determined

(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 5)

- Melting point/freezing point:	Not determined
- Boiling point or initial boiling point and boiling range	~100 °C (7173-51-5 didecyldimethylammonium chloride)
- Flammability	Not applicable
- Lower and upper explosion limit	
- Lower:	Not determined
- Upper:	Not determined
- Flash point:	Not determined
- Auto-ignition temperature:	(lowest level for individual components)
- Decomposition temperature:	Not determined
- pH at 20 °C	7,5
	not applicable
- pH-value:	
- Viscosity:	
- Kinematic viscosity	Not determined
- dynamic:	Not determined
- Solubility	
- Water:	Insoluble
- Partition coefficient n-octanol/water (log value)	Not determined
- Vapour pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
- Density and/or relative density	
- Density at 20 °C	0,98 g/cm ³ (DIN 51757)
- Relative density	Not determined
- Vapour density	Not determined
- 9.2 Other information	
- Appearance:	
- Form:	Fluid
- Important information on protection of health and environment, and on safety.	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not potentially explosive
- Evaporation rate	Not determined
- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- 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

(Contd. on page 7)

EUE

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 6)

- 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 oxidising agents
- **10.6 Hazardous decomposition products:**
Formation of carbon monoxide, carbon dioxide and nitrogen oxides in case of fire.

* 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)

107-21-1 ethane-1,2-diol

Dermal	LD50	>3.500 mg/kg (mouse) 9.530 mg/kg (rabbit)
Inhalative	LC 50	>2,5 mg/l (rat) (6 h)

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)

Oral	LD50	64-66 mg/kg (rat) (Thor)
Dermal	LD50	87-141 mg/kg (rat) (Thor)
Inhalative	LC 50 / 4 h	0,17-2,36 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.
- **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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Sensitisation**
Contains ingredient(s), which is (are) sensitizing, but not in amounts, which cause a classification of the preparation as sensitizing. See also comments under section 2 (Special labelling of certain preparations).

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 7)

- 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 (<i>Pimephales promelas</i>)
EC 50 / 48 h	0,062 mg/l (<i>Daphnia magna</i>)
EC 50 / 96 h	0,026 mg/l (<i>Pseudokirchneriella subcapitata</i>)
EC 50 / 72 h	0,33 mg/l (<i>Scenedesmus subspicatus</i>)
NOEC	0,032 mg/l (<i>Danio rerio</i>) (34d)
	0,01 mg/l (<i>Daphnia magna</i>) (21d)
EC 10 / 12 h	0,1 mg/l (<i>Pseudomonas putida</i>)
EC 10 / 16 h	0,13 mg/l (<i>Pseudomonas putida</i>)

107-21-1 ethane-1,2-diol

LC 50 / 96 h	18.000 mg/l (<i>Oncorhynchus mykiss</i>)
	72.860 mg/l (<i>Pimephales promelas</i>)
EC 50 / 48 h	>100 mg/l (<i>Daphnia magna</i>)
	>10.000 mg/l (Algae)
EC 50 / 96 h	6.500-13.000 mg/l (<i>Selenastrum capricornutum</i>)

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)

LC 50 / 96 h	0,19 mg/l (fish)
	14,8 mg/l (<i>Oncorhynchus mykiss</i>) (OECD 203)
	0,32 mg/l (<i>Lepomis macrochirus</i>)
	>100 mg/l (<i>Danio rerio</i>) (Richtlinie 67/548/EWG, Anhang V, C.1.)
EC 50 / 48 h	0,1 mg/l (<i>Daphnia magna</i>) (OECD 202)
	0,0052 mg/l (<i>Skeletonema costatum</i>) (OECD 201)
EC 50 / 48 h	6,7 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC 50 / 96 h	0,22 mg/l (<i>Oncorhynchus mykiss</i>) (OECD 203)
EC 50 / 72 h	0,018-0,027 mg/l (<i>Selenastrum capricornutum</i>)
	0,048 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
EC 50	0,003 mg/l (<i>Skeletonema costatum</i>)
EC 50 / 3 h	7,92 mg/l (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test))
NOEC	0,098 mg/l (<i>Oncorhynchus mykiss</i>) (28 d, OECD 210)
	0,004 mg/l (<i>Daphnia</i>) (21 d, OECD 211)
NOEC / 72 h	0,0012 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
NOEC / 48 h	0,00064 mg/l (<i>Skeletonema costatum</i>) (OECD 201)

- 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

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 8)

direct request or at the request of a detergent manufacturer.

7173-51-5 didecyldimethylammonium chloride	
DOC - Elimination	90 % (OECD 301A)
Biodegradability	72 % (OECD 301 B)
107-21-1 ethane-1,2-diol	
Biodegradability	90-100 % (OECD 301A) (10 h, OECD 301 A / ISO 7827)
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)	
Biodegradability	>80 % (OECD 303 A) (OECD 303 A (Activated sludge))
	>60 % (OECD 301 D) (28 d, OECD 301 D)
	30 % (OECD 301 B)
Biodegradability	100 % (OECD 302 B)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **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))
107-21-1 ethane-1,2-diol	
EC 20 / 0,5 h	>1.995 mg/l (activated sludge (method OECD 209))
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture)	
EC 20	0,97 mg/l (activated sludge (DEV - L2)) (3 h, OECD 209)
EC 50	4,5 mg/l (-) (Atemhemmung (Belebtschlamm))
	7,9 mg/l (activated sludge (method OECD 209))

- **Additional ecological information:**

Does not cause any biological oxygen consumption. After neutralization, the toxicity is reduced. Toxic effects refer to pH-values below pH<6 or above pH>9.

- **General notes:**

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

- **Recommendation**

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

Contaminated water to separate by separator and dispose off in line with administrative regulations.

- **Waste disposal key number:**

Since 1 January 1999, the waste code numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be taken from the European Waste Catalogue.

(Contd. on page 10)

EUE

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 9)

- **Uncleaned packagings:** Disposal in accordance with official regulations.- **Recommendation:**

Levelopment: After optimal emptying, immediately return to the supplier tightly closed and without cleaning. Make sure that no foreign matter gets into the packaging!

Other containers: Empty completely and clean for reconditioning or reprocessing.

* SECTION 14: Transport information

- 14.1 UN number or ID number	
- ADR/RID, IMDG, IATA	UN1760
- 14.2 UN proper shipping name	
- ADR/RID	1760 CORROSIVE LIQUID, N.O.S. (didecyldimethylammonium chloride), ENVIRONMENTALLY HAZARDOUS
- IMDG	CORROSIVE LIQUID, N.O.S. (didecyldimethylammonium chloride, DODECYL DIPHENYLOXID DISULFONAT), MARINE POLLUTANT
- IATA	CORROSIVE LIQUID, N.O.S. (didecyldimethylammonium chloride)
- 14.3 Transport hazard class(es)	
- ADR/RID	
- Class	8 (C9) Corrosive substances. Corrosive substances.
- Label	8
- IMDG, IATA	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR/RID, IMDG, IATA	II
- 14.5 Environmental hazards:	Product contains environmentally hazardous substances: didecyldimethylammonium chloride
- Marine pollutant:	Yes Symbol (fish and tree)
- Special marking (ADR/RID):	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Corrosive substances.
- Kemler Number:	80
- EMS Number:	F-A, S-B
- Stowage Category	B
- Stowage Code	SW2 Clear of living quarters.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
- Transport/Additional information:	
- ADR/RID	
- Limited quantities (LQ)	1L

(Contd. on page 11)

EUE

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 10)

- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE), 8, 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**



GHS05 GHS07 GHS08 GHS09

- **Signal word** Danger

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

didecyldimethylammonium chloride

ethane-1,2-diol

Benzol, 1,1'-oxybis-, tetrapropylenderivate, sulfoniert, Natriumsalz

- **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

H410 Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

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

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

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

(Contd. on page 12)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.04.2026

Version number 112.05 (replaces version 112.04)

Revision: 16.12.2025

Trade name Demulgator 53

(Contd. of page 11)

- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3**- Regulation (EU) No 649/2012**

7173-51-5 didcyldimethylammonium 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.

- VOC (EU) 0,0 g/l**- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.****SECTION 16: Other information**

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

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

- Application:

Please refer to the technical data sheet for application instructions.

Only for industrial applications.

- UFI market placements: (A), (CZ), (FR), (D), (HU), (IT), (NL), (PL), (SK)**- Relevant phrases**

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

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

(Contd. on page 13)

Safety data sheet

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(Contd. of page 12)

*H411 Toxic to aquatic life with long lasting effects.**EUH071 Corrosive to the respiratory tract.***- Training hints**

Employees must be regularly trained in the safe handling of the products based on the information in the safety data sheet and the local conditions of the workplace. National regulations on the training of employees in the handling of hazardous substances must be observed.

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

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- Department issuing data specification sheet: See section 1.3: Responding area**- Date of previous version:** 22.08.2025**- Version number of previous version:** 112.04**- 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 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: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

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

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

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

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term 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.