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

1.1 Product identifier

Silikon Löser 500

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ramsauer GmbH & Co KG
Alte Bundesstraße 147
5350 Strobl / Wolfgangsee / AUSTRIA
Phone +43 (0)6135 8205 0
Fax +43 (0)6135 8205-250
Homepage www.ramsauer.eu
E-mail office@ramsauer.eu

Address enquiries to

Technical information office@ramsauer.at

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company +43 (0)6135 8205 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Corr. 1C: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

Signal word DANGER

Contains: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative

Hazard statements
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P260 Do not breathe vapours.
P273 Avoid release to the environment.
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].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER / doctor.
P501 Dispose of contents/container in accordance with local/national regulation.

Cleaner, 648/2004/CE, contains:
15 - <30% anionic surfactant
>=30% aromatic hydrocarbons
>=30% aliphatic hydrocarbons

2.3 Other hazards

Environmental hazards
Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
25 - 50	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
	EINECS/ELINCS: 925-653-7, Reg-No.: 01-2119458869-15-XXXX
	GHS/CLP: Asp. Tox. 1: H304 - Aquatic Chronic 3: H412 - EUH066, M-Factor (acute): 0
25 - 50	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
	CAS: 1174522-18-9, EINECS/ELINCS: 920-360-0, Reg-No.: 01-2119448343-41-XXXX
	GHS/CLP: Asp. Tox. 1: H304 - EUH066
10 - 25	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative
	CAS: 85536-14-7, EINECS/ELINCS: 287-494-3, Reg-No.: 01-2119490234-40-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Aquatic Chronic 3: H412
≤ 2,5	Butanone
	CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066

Comment on component parts For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation Bring the affected person to fresh air and keep him calm. If breathing difficulties occur: Keep patient half sitting with upper body raised.
Get medical advice.

Skin contact In case of contact with skin wash off immediately with soap and water.
Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

Eye contact In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
Shield unaffected eye.

Ingestion Rinse out mouth and give plenty of water to drink.
Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.
Risk of serious damage to eyes.
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

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

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Sulphur oxides (SOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (protective gloves, safety glasses, protective clothing).
Use breathing apparatus.
Keep people away and stay on the upwind side.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Vapours can form an explosive mixture with air.

Wash hands before breaks and after work.
Use barrier skin cream.
Do not eat, drink, smoke or take drugs at work.
Remove contaminated soaked clothing immediately and dispose of safely.
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.
Keep in a cool place.
Protect from heat/overheating.
Keep container in a well-ventilated place.

Storage class (TRGS 510) Storage class 8A (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored DE (TRGS 900)

Substance
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
CAS: 1174522-18-9, EINECS/ELINCS: 920-360-0, Reg-No.: 01-2119448343-41-XXXX
Exposure limit: 600 mg/m³, AGS, 2.9
Factor: 2
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
EINECS/ELINCS: 925-653-7, Reg-No.: 01-2119458869-15-XXXX
Exposure limit: 250 mg/m³, RCP (TRGS 900)
Factor: 2
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative
CAS: 85536-14-7, EINECS/ELINCS: 287-494-3, Reg-No.: 01-2119490234-40-XXXX
Exposure limit: 10 ppm, 49 mg/m³, DFG, TRGS 901-102
Butanone
CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
Exposure limit: 200 ppm, 600 mg/m³, BAT, DFG, H, Y, EU
Factor: 1(I)

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Butanone
CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
Eight hours: 600 mg/m³
Short-term (15-minute): 300 ppm, 900 mg/m³

DNEL

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
Industrial, dermal, Long-term - systemic effects, 170 mg/kg
Industrial, inhalative, Long-term - systemic effects, 12 mg/m³
Industrial, inhalative, Long-term - local effects, 12 mg/m³
general population, inhalative, Long-term - local effects, 3 mg/m³
general population, inhalative, Long-term - systemic effects, 3 mg/m³
general population, oral, Long-term - systemic effects, 0,85 mg/kg
general population, dermal, Long-term - systemic effects, 85 mg/kg
Butanone, CAS: 78-93-3
Industrial, inhalative, Long-term - systemic effects, 600 mg/m³
Industrial, dermal, Long-term - systemic effects, 1161 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 106 mg/m³
general population, dermal, Long-term - systemic effects, 412 mg/kg bw/day
general population, oral, Long-term - systemic effects, 31 mg/kg bw/day
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
There are no DNEL values established for the substance.
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
There are no DNEL values established for the substance.

PNEC

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
freshwater, 0,287 mg/l
seawater, 0,029 mg/l
sewage treatment plants (STP), 3,43 mg/l

soil, 35 mg/kg
sediment (freshwater), 0,287 mg/kg
sediment (seawater), 0,287 mg/kg
Butanone, CAS: 78-93-3
freshwater, 55,8 mg/l
seawater, 55,8 mg/l
sewage treatment plants (STP), 709 mg/l
sediment (freshwater), 284,74 mg/kg sediment dw
sediment (seawater), 284,7 mg/kg sediment dw
soil, 22,5 mg/kg soil dw
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
There are no PNEC values established for the substance.
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
There are no PNEC values established for the substance.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	0,7 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	pasty
Form	pasty
Color	violet
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	175
Flash point [°C]	62
Flammability	not applicable
Lower explosion limit	0,5 Vol.-%
Upper explosion limit	6,5 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	0,2 (20 °C)
Density [g/cm³]	0,9 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	> 20,5 mm²/s (40 °C)
Relative vapour density	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	310
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Vapours can form an explosive mixture with air.

10.4 Conditions to avoid

Strong heating.
See SECTION 7.2.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg bw

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
LD50, oral, Rat, 1470 mg/kg, OECD 401
Butanone, CAS: 78-93-3
LD50, oral, Rat, 3300 mg/kg (Lit.)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
LD50, oral, Rat, >4150 mg/kg bw (OECD 423)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
LD50, oral, Rat, >15000 mg/kg bw, OECD 401

Acute dermal toxicity

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
LD50, dermal, Rabbit, >2000 mg/kg bw, OECD 402
Butanone, CAS: 78-93-3
LD50, dermal, Rabbit, 5000 mg/kg (Lit.)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
LD50, dermal, Rat, >1700 mg/kg bw (OECD 402), no adverse effect observed
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
LD50, dermal, Rabbit, >4 ml/kg bw, OECD 402

Acute inhalational toxicity

Substance
Butanone, CAS: 78-93-3
LC50, inhalative, Rat, 20 mg/l/4h (Lit.)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
LC50, inhalative, Rat, >5,28 mg/l air (OECD 403)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
LC50, inhalative, Rat, >13,1 mg/L, OECD 403
NOAEC, inhalative, Rat, 300 - 690 ppm

Serious eye damage/irritation

Based on the available information, the classification criteria are fulfilled.
Risk of serious damage to eyes.
Calculation method

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
Rabbit, OECD 405, corrosive
Butanone, CAS: 78-93-3
Eye, Rabbit, In vivo study, irritant
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

Based on the available information, the classification criteria are fulfilled.
Product is caustic.
Calculation method

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
dermal, Rabbit, OECD 404, corrosive

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
dermal, Guinea pig, non-sensitizing
Butanone, CAS: 78-93-3
dermal, Guinea pig, OECD 406, non-sensitizing
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
dermal, Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Substance
Butanone, CAS: 78-93-3
NOAEC, inhalative, Rat, 14871 mg/kg, OECD 413, no adverse effect observed
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
NOAEL, oral, Rat, 1056 mg/kg bw/day, OECD 408, no adverse effect observed
NOAEL, inhalative, Rat, 3950 mg/m³ (subchronic), OECD 413, no adverse effect observed
NOAEL, dermal, Rat, 495 mg/kg bw/day, OECD 410, no adverse effect observed

Mutagenicity Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Substance
Butanone, CAS: 78-93-3
in vitro, OECD 471, negativ
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
mouse, InVivo, OECD 474, negativ
InVitro, OECD 479, negativ

Reproduction toxicity Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

- Fertility

Substance
Butanone, CAS: 78-93-3
NOAEL, oral, Rat, 3122 mg/kg bw/day, no adverse effect observed
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
NOAEL, oral, Rat, 1500 mg/kg bw/day (subacute), no adverse effect observed, Effect on fertility,
NOAEL, oral, Rat, 500 mg/kg bw/day (subacute), no adverse effect observed, Effect on developmental toxicity,
NOAEC, inhalative, Rat, 1575 mg/m³ (subacute), no adverse effect observed, Effect on developmental toxicity,
NOAEC, inhalative, Rat, 1720 mg/m³ (subacute), no adverse effect observed, Effect on fertility,

- Development

Substance
Butanone, CAS: 78-93-3
NOAEC, inhalative, Rat, 3003 mg/m³, no adverse effect observed
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
NOAEL, oral, Rat, 1500 mg/kg bw/day (subacute), no adverse effect observed, Effect on fertility,
NOAEL, oral, Rat, 500 mg/kg bw/day (subacute), no adverse effect observed, Effect on developmental toxicity,
NOAEC, inhalative, Rat, 1575 mg/m³ (subacute), no adverse effect observed, Effect on developmental toxicity,
NOAEC, inhalative, Rat, 1720 mg/m³ (subacute), no adverse effect observed, Effect on fertility,

Carcinogenicity Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Aspiration hazard Based on available data, the classification criteria are not met.
v > 20,5 mm²/s (40 °C)

General remarks

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
LC50, (96h), Lepomis macrochirus, 1,67 mg/l
EC50, (48h), Daphnia magna, 2,9 mg/l
EC50, (72h), Scenedesmus subspicatus, 47,3 mg/l
NOEC, 0,268 mg/l
Butanone, CAS: 78-93-3
LC50, (48h), Leuciscus idus, > 100 mg/l (Lit.)
EC50, (48h), Daphnia magna, > 100 mg/l (Lit.)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
EL0, (48h), Daphnia magna, >1000 mg/l (OECD 202)
EL50, (21d), Daphnia magna, >5000 mg/l (OECD 211)
EL50, (72h), Pseudokirchneriella subcapitata, 1000 mg/l (OECD 201)
LL50, (21d), Brachidanio rerio, >5000 mg/l (OECD 204)
LL0, (96h), Oncorhynchus mykiss, >1000 mg/l (OECD 203)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
EL50, (48h), Daphnia magna, 10 - 22 mg/l
EL50, (21d), Daphnia magna, 1,19 mg/l
EL50, (24h), Pseudokirchneriella subcapitata, 10 - 100 mg/l
NOELR, (28d), Oncorhynchus mykiss, 0,079 mg/l
LL50, (96h), Oncorhynchus mykiss, 10 - 100 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	2586
Inland navigation (ADN)	2586
Marine transport in accordance with IMDG	2586
Air transport in accordance with IATA	2586

14.2 UN proper shipping name

Transport by land according to ADR/RID	Arylsulphonic acids, liquid
- Classification Code	C3
- Label	
- ADR LQ	5 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (E)
Inland navigation (ADN)	Arylsulphonic acids, liquid
- Classification Code	C3
- Label	
Marine transport in accordance with IMDG	Arylsulfonic acids, liquid
- EMS	F-A, S-B
- Label	
- IMDG LQ	5 l
Air transport in accordance with IATA	Arylsulfonic acids, liquid
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	8
Inland navigation (ADN)	8
Marine transport in accordance with IMDG	8
Air transport in accordance with IATA	8

14.4 Packing group

Transport by land according to ADR/RID	III
Inland navigation (ADN)	III
Marine transport in accordance with IMDG	III
Air transport in accordance with IATA	III

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 40, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
NATIONAL REGULATIONS (DE):	Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	2, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	not applicable
- Class. according to TA-Luft	5.2.5.
- Storage class (TRGS 510)	Storage class 8A (VCI)
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (2010/75/CE)	>50 %
- Other regulations	DGUV Information 213-070: Säuren und Laugen (Merkblatt M 004 der Reihe „Gefahrstoffe“) TRGS 401: Gefährdung durch Hautkontakt. - Ermittlung, Beurteilung, Maßnahmen. TRGS 510: Storage of hazardous substances in non-stationary containers

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
EUH066 Repeated exposure may cause skin dryness or cracking.
H412 Harmful to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Skin Corr. 1C: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

none