GREASE POWER

WM 0713654 **Order number: 0713654**

Version 10.3 Revision Date 10.09.2026 Print Date 12.09.2026

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

1.1 Product identifier

Trade name	:	GREASE POWER
UFI	:	MW03-10SS-X00A-RUWD

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

Use of the Substance/Mixture	:	Cleaning agent Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company	:	Tana Chemie GmbH Rheinallee 96 55120 Mainz
Telephone	:	+49613196403
Telefax	:	+4961319642526
E-mail address	:	Produktsicherheit@werner-mertz.com
Responsible/issuing person		
Contact person	:	Product development / product safety

1.4 Emergency telephone

EU: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word	:	Danger	
Hazard Statements	:	H314	Causes severe skin burns and eye damage.
Precautionary Statements	:	P102	Keep out of reach of children.
		Prevention:	
		P260	Do not breathe spray.
		P264	Wash skin thoroughly after handling.
		P280	Wear protective gloves/ eye protection.
		Response:	

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Disposal:

P501 Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous ingredients which must be listed on the label:
sodium hydroxide

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-methyliminodiethanol	105-59-9 203-312-7 603-079-00-5 01-2119488970-24	Eye Irrit. 2; H319	>= 5 - < 10
1-butoxypropan-2-ol	5131-66-8 225-878-4 603-052-00-8 01-2119475527-28	Eye Irrit. 2; H319 Skin Irrit. 2; H315 --- specific concentration limit Eye Irrit. 2; H319 > 20 % Skin Irrit. 2; H315 > 20 %	>= 3 - < 5
Decanol, ethoxylated	26183-52-8 500-046-6	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 3
sodium octyl sulphate	142-31-4 205-535-5		>= 1 - < 3

	01-2119966154-35		
sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 --- specific concentration limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 %	>= 1 - < 2
Silicic acid, sodium salt	1344-09-8 215-687-4 01-2119448725-31	Eye Dam. 1; H318 Skin Irrit. 2; H315	>= 1 - < 3
Decan-1-ol.ethoxylated	26183-52-8 500-046-6	Eye Irrit. 2; H319	>= 1 - < 3
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60		>= 1 - < 3

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : corrosive effects

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-methoxymethylethoxy)propanol	Not Assigned	TWA	50 ppm 308 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 308 mg/m3	
	Further information: Dermal absorption possible			
			100 ppm	
	Further information: Dermal absorption possible			

		STEL	150 ppm	
	Further information: Dermal absorption possible			
			100 ppm	
	Further information: Recommended exposure limit			
		STEL	150 ppm 900 mg/m3	
		STEL	50 ppm 310 mg/m3	

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
2,2'-methyliminodiethanol	Workers	Inhalation	Long-term systemic effects	7,9 mg/m3
	Workers	Dermal	Long-term systemic effects	5,6 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,4 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,67 mg/kg
	Consumers	Oral	Long-term systemic effects	0,13 mg/kg
1-butoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	147 mg/m3
	Workers	Skin contact	Long-term systemic effects	52 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	43 mg/m3
	Consumers	Dermal	Long-term systemic effects	22 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
(2-methoxymethylethoxy)propanol	Workers	Skin contact	Long-term systemic effects	65 mg/kg

	Workers	Inhalation	Long-term systemic effects	310 mg/m3
	Consumers	Skin contact	Long-term systemic effects	15 mg/kg
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg
	Consumers	Inhalation	Long-term systemic effects	37,2 mg/m3
	Workers	Inhalation	Long-term systemic effects	308 mg/m3
	Workers	Skin contact	Long-term systemic effects	283 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	121 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	36 mg/kg bw/day
sodium octyl sulphate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2440 mg/kg
	Consumers	Inhalation	Long-term systemic effects	85 mg/m3
	Consumers	Ingestion	Long-term systemic effects	24 mg/kg
sodium hydroxide	Workers	Inhalation	Long-term local effects	1,0 mg/m3
	Workers	Inhalation	Long-term systemic effects, Long-term local effects	1,5 mg/m3
	Workers	Inhalation	Short-term exposure, Local effects, Systemic effects	3 mg/m3
	Consumers	Inhalation	Long-term local effects, Long-term systemic effects	0,6 mg/m3
	Consumers	Inhalation	Short-term exposure, Local effects, Systemic	1,2 mg/m3

			effects	
	Consumers	Ingestion	Long-term local effects, Long-term systemic effects	25 mg/m3
Silicic acid, sodium salt	Workers	Skin contact	Long-term systemic effects	1,59 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	5,61 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,38 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0,8 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,2'-methyliminodiethanol	Fresh water	1 mg/l
	Sea water	0,0045 mg/l
	Fresh water	0,278 mg/l
	Sea water	0,0278 mg/l
	Intermittent use/release	1 mg/l
	Fresh water sediment	2,17 mg/kg
	Sea sediment	0,217 mg/kg
	Soil	0,27 mg/kg
	STP	10 mg/l
1-butoxypropan-2-ol	Fresh water	0,525 mg/l
	Sea water	0,0525 mg/l
	Fresh water sediment	2,36 mg/kg
	Sea sediment	0,236 mg/kg
	Soil	0,16 mg/kg
	STP	10 mg/l

	intermittent release	5,25 mg/l
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate	Fresh water	0,44 mg/l
	Sea water	0,044 mg/l
	STP	1000 mg/l
	Fresh water sediment	34,6 mg/kg
	Sea sediment	3,46 mg/kg
	Soil	33,1 mg/kg
(2-methoxymethylethoxy)propanol	Fresh water	19 mg/l
	Sea water	1,9 mg/l
	Fresh water sediment	70,2 mg/kg
	Sea sediment	7,02 mg/kg
	Soil	2,74 mg/kg
	intermittent release	190 mg/l
	STP	4168 mg/l
sodium octyl sulphate	Fresh water	0,1357 mg/l
	Sea water	0,01357 mg/l
	STP	1,35 mg/l
	Fresh water sediment	1,5 mg/kg
	Sea sediment	0,15 mg/kg
	Soil	0,22 mg/kg
Silicic acid, sodium salt	Fresh water	7,5 mg/l
	Sea water	1 mg/l
	intermittent release	7,5 mg/l
	STP	348 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material	:	Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Remove and wash contaminated clothing before re-use.
Respiratory protection	:	Not required; except in case of aerosol formation. Recommended Filter type: ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Color	:	red, clear
Odor	:	characteristic
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Flash point	:	does not flash
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	ca. 13,2, 100 % at 20 °C

Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	No data available
Density	:	ca. 1,053 g/cm3 at 20 °C
Relative density	:	No data available
Relative vapor density	:	No data available
Particle characteristics	:	No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

2,2'-methyliminodiethanol

105-59-9:

Acute oral toxicity : LD50 (Rat): 4.680 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

LD50 (Rabbit): 5.990 mg/kg

1-butoxypropan-2-ol

5131-66-8:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.300 mg/kg
Method: OECD Test Guideline 423

LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 651 mg/l
Exposure time: 4 h

LC50 (Rat): 3,5 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

Decanol, ethoxylated

26183-52-8:

Acute oral toxicity : LD50 Oral: > 2.000 mg/kg

sodium octyl sulphate

142-31-4:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

sodium hydroxide

1310-73-2:

Acute oral toxicity : LD50 Oral (Rat): 2.000 mg/kg

Silicic acid, sodium salt

1344-09-8:

Acute oral toxicity	:	LD50 Oral (Rat): 3.400 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2,06 mg/l Exposure time: 4 h
Acute dermal toxicity	:	LD50 (Rat): > 5.000 mg/kg

(2-methoxymethylethoxy)propanol

34590-94-8:

Acute oral toxicity	:	LD50 (Dog): 7.500 mg/kg LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): 5.135 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 55 - 60 mg/l Exposure time: 4 h LC50 (Rat): 3,35 mg/l Exposure time: 7 h
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 19.000 mg/kg LD50 (Rabbit, males): 9.510 mg/kg Method: OECD Test Guideline 402 LD50 (Rabbit): 14.000 mg/kg LD50 (Rat): > 19.020 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks	:	Extremely corrosive and destructive to tissue.

Components:

2,2'-methyliminodiethanol

105-59-9:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

sodium octyl sulphate

142-31-4:

Result	:	Skin irritation

sodium hydroxide

1310-73-2:

Result	:	Corrosive

Silicic acid, sodium salt

1344-09-8:

Result : Skin irritation

(2-methoxymethylethoxy)propanol

34590-94-8:

Remarks : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

2,2'-methyliminodiethanol

105-59-9:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.

sodium octyl sulphate

142-31-4:

Result : Causes serious eye damage.

sodium hydroxide

1310-73-2:

Result : Corrosive

Silicic acid, sodium salt

1344-09-8:

Method : OECD Test Guideline 405
Result : Causes serious eye damage.

(2-methoxymethylethoxy)propanol

34590-94-8:

Result : Mild eye irritation

Respiratory or skin sensitization

Product:

Remarks : No data available

Components:

2,2'-methyliminodiethanol

105-59-9:

Species : Guinea pig

Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.
Germ cell mutagenicity	:	Not Rated
Carcinogenicity	:	Not Rated
Reproductive toxicity	:	Not Rated

STOT-single exposure

STOT-single exposure	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

(2-methoxymethylethoxy)propanol

34590-94-8:

Assessment	:	May cause drowsiness or dizziness.
STOT-repeated exposure	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

sodium octyl sulphate

142-31-4:

Species	:	Rat
NOAEL	:	488 mg/kg
Application Route	:	Oral
Method	:	OECD Test Guideline 408
Species	:	Rat
LOAEL	:	1016 mg/kg
Application Route	:	Oral
Method	:	OECD Test Guideline 408
Species	:	Mouse
NOAEL	:	400 mg/kg
Application Route	:	Dermal
Method	:	OECD Test Guideline 411

(2-methoxymethylethoxy)propanol

34590-94-8:

Species	:	Rat
NOAEL	:	1.000 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Species	:	Rat
NOAEL	:	1.000 mg/kg
Application Route	:	Oral

Exposure time	:	90 d
Species	:	Rabbit
NOAEL	:	2.850 mg/kg
Application Route	:	Skin contact
Aspiration toxicity	:	Not Rated

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

Components:

(2-methoxymethylethoxy)propanol

34590-94-8:

Remarks : Inhalation of aerosols may cause irritation to mucous membranes.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2'-methyliminodiethanol

105-59-9:

Toxicity to fish	:	(Leuciscus idus (Golden orfe)): 1.466 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): 233 mg/l Exposure time: 48 h Test Type: static test Method: Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): 6,25 mg/l Exposure time: 72 h EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC20 (activated sludge): > 1.000 mg/l Exposure time: 0,5 h Method: OECD Test Guideline 209

1-butoxypropan-2-ol

5131-66-8:

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 560 - 1.000 mg/l Exposure time: 96 h NOEC (Poecilia reticulata (guppy)): 180 mg/l Exposure time: 96 h LC50 (Fish): 1.000 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h EC50 (Fish): < 320 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 NOEC (Daphnia magna (Water flea)): 560 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1.000 mg/l Exposure time: 96 h Test Type: Cell multiplication inhibition test NOEC (Selenastrum capricornutum): 560 mg/l Exposure time: 96 h
Toxicity to microorganisms	:	EC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

Decanol, ethoxylated

26183-52-8:

Toxicity to fish	:	LC50 : 1 - 10 mg/l Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): 13,5 mg/l Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	(Desmodesmus subspicatus (green algae)): 12,0 mg/l Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC0 (Bacteria): > 100 mg/l

sodium octyl sulphate

142-31-4:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants	:	EC50 : > 100 mg/l EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC0 : > 100 mg/l
Toxicity to fish (Chronic toxicity)	:	Lowest Observed Effect Concentration: > 1,357 mg/l Exposure time: 42 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1,4 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

sodium hydroxide

1310-73-2:

Toxicity to fish	:	LC50 (Fish): 33 - 189 mg/l Exposure time: 96 h LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l Exposure time: 96 h LC50 (Poecilia reticulata (guppy)): 76 mg/l Exposure time: 24 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 40,4 mg/l EC50 (Daphnia magna (Water flea)): 76 mg/l Exposure time: 24 h EC50 (Ceriodaphnia (water flea)): 40,4 mg/l Exposure time: 48 h Test Type: Immobilization
Toxicity to microorganisms	:	EC50 (Photobacterium phosphoreum): 22 mg/l Exposure time: 15 min

Silicic acid, sodium salt

1344-09-8:

Toxicity to fish	:	LC50 (Brachydanio rerio): 1.108 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.700 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to microorganisms	:	EC0 (Pseudomonas putida): > 1.000 mg/l Exposure time: 48 h

Decan-1-ol.ethoxylated

26183-52-8:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 7,2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (algae): 4,2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

(2-methoxymethylethoxy)propanol

34590-94-8:

Toxicity to fish	:	(Pimephales promelas (fathead minnow)): > 10.000 mg/l Exposure time: 96 h Test Type: static test LC50 (Poecilia reticulata (guppy)): > 1.000 mg/l Exposure time: 96 h Test Type: static test (Fish): > 1.000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.919 mg/l Exposure time: 48 h Test Type: static test EC50 (Crangon crangon (shrimp)): > 1.000 mg/l Exposure time: 96 h Test Type: semi-static test NOEC (Daphnia magna (Water flea)): > 0,5 mg/l Exposure time: 22 d
Toxicity to algae/aquatic plants	:	(Pseudokirchneriella subcapitata (microalgae)): > 969 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 (Selenastrum capricornutum): 1.000 mg/l Exposure time: 72 h EC50 (Skeletonema costatum (marine diatom)): 6.999 mg/l Exposure time: 72 h EC50 (Selenastrum capricornutum (green algae)): 969 mg/l Exposure time: 96 h EC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 4.168 mg/l Exposure time: 18 h Test Type: Growth inhibition EC50 (No data available): > 100 mg/l

EC20 (activated sludge): > 1.000 mg/l
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 12 mg/l
Species: Daphnia magna (Water flea)

NOEC: >= 0,5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

Lowest Observed Effect Concentration: > 0,5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

2,2'-methyliminodiethanol
105-59-9:
Biodegradability : Result: rapidly biodegradable
Biodegradation: 96 %
Exposure time: 18 d
Method: OECD 301 A

1-butoxypropan-2-ol
5131-66-8:
Biodegradability : Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 E
Remarks: Readily biodegradable, according to appropriate OECD test.

Decanol, ethoxylated
26183-52-8:
Biodegradability : Biodegradation: 89 %
Exposure time: 28 d
Method: OECD 301 F

sodium octyl sulphate
142-31-4:
Biodegradability : Biodegradation: 98,2 %
Remarks: Expected to be biodegradable

sodium hydroxide
1310-73-2:
Biodegradability : Result: Biodegradable
Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

(2-methoxymethylethoxy)propanol
34590-94-8:
Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %

Exposure time: 28 d
Method: OECD 301 E

Biodegradation: 75 %
Exposure time: 28 d
Method: OECD 301 F

Biodegradation: 93 %
Exposure time: 13 d
Method: OECD 302 B

Result: rapidly biodegradable
Biodegradation: 91 %
Exposure time: 28 d
Method: EN ISO 14593: CO2-Headspace-Test

Result: rapidly biodegradable
Biodegradation: 75 %
Exposure time: 10 d
Method: OECD 301 F

12.3 Bioaccumulative potential

Components:

1-butoxypropan-2-ol

5131-66-8:

Bioaccumulation	:	Bioconcentration factor (BCF): < 100 Remarks: Does not bioaccumulate.
Partition coefficient: n-octanol/water	:	log Pow: 3,2
		log Pow: 1,2 (20 °C) pH: 7

sodium hydroxide

1310-73-2:

Bioaccumulation	:	Species: Fish Remarks: No bioaccumulation is to be expected (log Pow <= 4).

(2-methoxymethylethoxy)propanol

34590-94-8:

Bioaccumulation	:	Bioconcentration factor (BCF): 100 Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	log Pow: -0,35

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

(2-methoxymethylethoxy)propanol

34590-94-8:

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code : European Waste Catalog
20 01 29*
According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : 3267
IMDG : 3267
IATA : 3267

14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide)

IMDG : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide)

IATA : Corrosive liquid, basic, organic, n.o.s.

14.3 Transport hazard class(es)

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR

Classification Code	:	C7
Packaging group	:	III
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	(E)

IMDG

Packaging group	:	III
Labels	:	8
EmS Number	:	F-A, S-B

IATA

(Cargo)	:	Corrosive liquid, basic, organic, n.o.s.
(Passenger)	:	Corrosive liquid, basic, organic, n.o.s.
Packaging group	:	III
Labels	:	8

14.5 Environmental hazards

ADR

Environmentally hazardous	:	no

IMDG

Marine pollutant	:	no

IATA

Environmentally hazardous	:	no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	:	Not applicable
TA Luft List (Germany)	:	Total dust: Not applicable
	:	Inorganic substances in powdered form: Not applicable
	:	Inorganic substances in vapor or gaseous form: : portionClass 3: 0,02 %

	:	Organic Substances: Not applicable
	:	Carcinogenic substances: Not applicable
	:	mutagenic: Not applicable
	:	Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	:	Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control) Update: Percent volatile: 5 % 296,16 g/l VOC content excluding water
Volatile organic compounds (VOC) content	:	Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control) Update: Percent volatile: 5 % 52,7 g/l VOC content valid only for coating materials used on wood surfaces
according to Detergents Regulation EC 648/2004	:	<5% anionic surfactants, non-ionic surfactants

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements

H290	:	May be corrosive to metals.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Met. Corr.	:	Corrosive to Metals
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2000/39/EC / TWA	:	Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory

Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Skin Corr. 1A	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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