



GREASE POWER 2X5 L

WM 0713654

Order number: 0713654

Version 7.0

Revision Date 06.03.2019

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

1.1 Product identifier

Trade name : GREASE POWER 2X5 L
Identification number : 61849, 64359

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 : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person :
Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (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:



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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 contents/ container to an approved waste disposal plant.

Hazardous components 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.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
2,2'-methyliminodiethanol	105-59-9 203-312-7 01-2119488970-24	Eye Irrit. 2; H319	>= 5 - < 10
1-butoxypropan-2-ol	5131-66-8 225-878-4 01-2119475527-28	Eye Dam. 2; H319 Skin Irrit. 2; H315 SCL > 20 % 2; H319 > 20 % 2; H315	>= 2 - < 5
DECETH-6 (INCI)	26183-52-8 500-046-6	Eye Irrit. 2; H319 Acute Tox. 4; H302	>= 2 - < 5
sodium octyl sulphate	142-31-4 205-535-5 01-2119966154-35	Skin Corr. 2; H315 Eye Dam. 1; H318 SCL 10 - < 20 % 2; H319 >= 20,0 % 1; H318	>= 1 - < 2



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sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27-XXXX	Met. Corr. 1; H290 Skin Corr. 1A; H314 SCL ≥ 5 % 1A; H314 2 - < 5 % 1B; H314 0,5 - < 2 % 2; H315 0,5 - < 2 % 2; H319	≥ 1 - < 2
Silicic acid, sodium salt	1344-09-8 215-687-4 01-2119448725-31	Eye Dam. 1; H318 Skin Irrit. 2; H315	≥ 1 - < 2
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60		≥ 2 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this 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



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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 firefighting : 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 firefighters : 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 materials for containment and cleaning up

Methods for cleaning up : Neutralise 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.



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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.
- Other data : 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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
(2-methoxymethyllethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m ³	2009-12-19	2000/39/EC
Further information	: skin: Identifies the possibility of significant uptake through the skinIndicative				
(2-methoxymethyllethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m ³		
Further information	: H: Dermal absorption possible				
(2-methoxymethyllethoxy)propanol	34590-94-8		100 ppm		



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lethoxy)propanol					
Further information	:	H: Dermal absorption possible			
(2-methoxymethyllethoxy)propanol	34590-94-8	STEL	150 ppm		
Further information	:	H: Dermal absorption possible			
(2-methoxymethyllethoxy)propanol	34590-94-8		100 ppm		
Further information	:	REL: Recommended exposure limit			
(2-methoxymethyllethoxy)propanol	34590-94-8	STEL	150 ppm 900 mg/m3		
(2-methoxymethyllethoxy)propanol	34590-94-8	STEL	50 ppm 310 mg/m3		

DNEL

**2,2'-methyliminodiethanol
105-59-9:**

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 26 mg/m3

End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 19 mg/kg

End Use: Consumers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 9,4 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 6,5 mg/m3

End Use: Consumers
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 1,9 mg/kg

**1-butoxypropan-2-ol
5131-66-8:**

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects



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	Value: 147 mg/m ³
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 52 mg/kg bw/day
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 43 mg/m ³
	End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 22 mg/kg bw/day
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 12,5 mg/kg bw/day
sodium octyl sulphate 142-31-4:	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 4060 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 285 mg/m ³
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 2440 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 85 mg/m ³
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 24 mg/kg
sodium hydroxide 1310-73-2:	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m ³
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects



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Silicic acid, sodium salt
1344-09-8:

Value: 1 mg/m³

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 1,59 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 5,61 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 0,8 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 1,38 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 0,8 mg/kg

(2-methoxymethylethoxy)propanol
34590-94-8:

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 65 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 310 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 15 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 1,67 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 37,2 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects



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Value: 308 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 283 mg/kg

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 121 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 36 mg/kg

PNEC

**2,2'-methyliminodiethanol
105-59-9:**

: Fresh water
Value: 1 mg/l

Marine water
Value: 0,0045 mg/l

intermittent release
Value: 1 mg/l

Fresh water sediment
Value: 0,78 mg/kg

Marine sediment
Value: 0,0351 mg/kg

Soil
Value: 0,097 mg/kg

STP
Value: 10 mg/l

**1-butoxypropan-2-ol
5131-66-8:**

: Fresh water
Value: 0,525 mg/l

Marine water
Value: 0,0525 mg/l

Fresh water sediment
Value: 2,36 mg/kg

Marine sediment
Value: 0,236 mg/kg

Soil



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	Value: 0,16 mg/kg
	STP Value: 10 mg/l
	intermittent release Value: 5,25 mg/l
sodium octyl sulphate 142-31-4:	: Fresh water Value: 0,1357 mg/l
	Marine water Value: 0,01357 mg/l
	STP Value: 1,35 mg/l
	Fresh water sediment Value: 1,5 mg/kg
	Marine sediment Value: 0,15 mg/kg
	Soil Value: 0,22 mg/kg
Silicic acid, sodium salt 1344-09-8:	: Fresh water Value: 7,5 mg/l
	Marine water Value: 1 mg/l
	intermittent release Value: 7,5 mg/l
	STP Value: 348 mg/l
(2- methoxymethylethoxy)propan ol 34590-94-8:	: Fresh water Value: 19 mg/l
	Marine water Value: 1,9 mg/l
	Fresh water sediment Value: 70,2 mg/kg
	Marine sediment Value: 7,02 mg/kg
	Soil Value: 2,74 mg/kg
	Water



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Value: 190 mg/l

STP
Value: 4168 mg/l

8.2 Exposure controls

Personal protective equipment

Eye 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

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : red

Odour : characteristic

Odour Threshold : No data available

pH : ca. 13,2, at20 °C

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available



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Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,053 g/cm ³ at 20 °C
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: 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



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Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

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

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

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

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

Aspiration toxicity : Not Rated

Further information : No data available

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



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Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406

1-butoxypropan-2-ol

5131-66-8:

Acute oral toxicity	: LD50 Oral Rat, male and female: 3.300 mg/kg Method: see user defined free text LD50 Rat: > 2.000 mg/kg
Acute inhalation toxicity	: LC50 Rat: 651 mg/l Exposure time: 4 h
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2.000 mg/kg Method: OECD Test Guideline 402

DECETH-6 (INCI)

26183-52-8:

Acute oral toxicity	: LD50 Oral : > 2.000 mg/kg
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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
Skin corrosion/irritation	: Result: Skin irritation
Serious eye damage/eye irritation	: Result: Causes serious eye damage.
Repeated dose toxicity	: No observed adverse effect level: Rat: 488 mg/kg



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Application Route: Oral
Method: OECD Test Guideline 408

Lowest observed adverse effect level: Rat: 1016 mg/kg

Application Route: Oral
Method: OECD Test Guideline 408

No observed adverse effect level: Mouse: 400 mg/kg

Application Route: Dermal
Method: OECD Test Guideline 411

sodium hydroxide

1310-73-2:

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

Skin corrosion/irritation : Result: Corrosive

Serious eye damage/eye irritation : Result: Corrosive

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

Skin corrosion/irritation : Result: Skin irritation

Serious eye damage/eye irritation : Result: Causes serious eye damage.

(2-methoxymethylethoxy)propanol

34590-94-8:

Acute oral toxicity : LD50 Dog: 7.500 mg/kg

LD50 Rat: 5.130 mg/kg

LD50 Rat: 5.135 mg/kg

Acute inhalation toxicity : LC50 Rat: 55 - 60 mg/l
Exposure time: 4 h



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	LC50 Rat: 3,35 mg/l Exposure time: 7 h
Acute dermal toxicity	: LD50 Dermal Rabbit: 19.000 mg/kg LD50 Dermal Rat: 9.500 mg/kg LD50 Rabbit: 9.510 mg/kg LD50 Rabbit: 14.000 mg/kg
Skin corrosion/irritation	: No skin irritation
Serious eye damage/eye irritation	: Result: No eye irritation
Respiratory or skin sensitisation	: Result: Does not cause skin sensitisation.

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	: 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 bacteria	: 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
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	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
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	: 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 bacteria	: EC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

DECETH-6 (INCI) 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	: (Desmodesmus subspicatus (green algae)): 12,0 mg/l Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to bacteria	: 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	: EC50 : > 100 mg/l



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	EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l Exposure time: 72 h
Toxicity to bacteria	: 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 (water flea)): 40,4 mg/l
	EC50 (Daphnia magna (Water flea)): 76 mg/l Exposure time: 24 h
Toxicity to bacteria	: 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
	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
Toxicity to bacteria	: EC0 (Pseudomonas putida): > 1.000 mg/l Exposure time: 48 h

(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
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- (Poecilia reticulata (guppy)): > 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 : (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
- Toxicity to bacteria : EC10 (Pseudomonas putida): 4.168 mg/l
Exposure time: 18 h
Test Type: Growth inhibition
- EC50 (No data available): > 100 mg/l
- 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



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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.

DECETH-6 (INCI)

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 : 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

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

sodium hydroxide

1310-73-2:

Bioaccumulation : Species: Fish



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

**(2-methoxymethylethoxy)propanol
34590-94-8:**

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

Partition coefficient: n-
octanol/water : log Pow: 1,01

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 : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 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 : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Waste Code : European Waste Catalogue
200129
According to the European Waste Catalogue, 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.



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SECTION 14: Transport information

14.1 UN number

ADR : 3267
IMDG : 3267
IATA : 3267

14.2 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. Not permitted for transport

14.3 Transport hazard class

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. Not permitted for transport
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.



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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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, preparations and articles (Annex XVII) : Not applicable

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 vapour or gaseous form: : portionClass 3: 0,02 %
: Organic Substances: Not applicable
: Carcinogenic substances: : portionClass 2: < 0,01 %
: Mutagenic: : < 0,01 %
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 5 %
294,68 g/l
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Update: Percent volatile: 5 %
52,65 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

GISBAU (D) : GG 80

15.2 Chemical safety assessment



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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.

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H314	Based on product data or assessment
	H318	Based on product data or assessment

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 Standardisation; 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 Organisation 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, Authorisation 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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