Safety Data Sheet according to (EC) No 1907/2006 as amended

BONDERITE S-ST 1302 PAINT STRIPPER known as MAGNUS 1302
4X5L/4X4,8KG

SDS No. : 47347
V008.1
Revision: 14.06.2024
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Replaces version from: 17.06.2022

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

1.1. Product identifier

BONDERITE S-ST 1302 PAINT STRIPPER known as MAGNUS 1302 4X5L/4X4,8KG
UFI: HT48-2WE6-T208-DVSS

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

Intended use:
Graffiti remover

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains 2-aminoethanol

Signal word: Danger

Hazard statement: H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statement: Prevention P280 Wear protective gloves/eye protection.

Precautionary statement: Response 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 or doctor.

2.3. Other hazards

None if used properly.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
(2-Methoxymethylethoxy)propanol 34590-94-8 252-104-2 01-2119450011-60	80- 100 %			EU OEL
2-aminoethanol 141-43-5 205-483-3 01-2119486455-28	1- < 5 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	STOT SE 3; H335; C >= 5 % ===== inhalation:ATE = 1,5 mg/l;dust/mist	EU OEL
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	1- < 5 %	Eye Dam. 1, H318 Acute Tox. 4, Oral, H302		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".
Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 % non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
In case of adverse health effects seek medical advice.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:
Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed
SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Foam, extinguishing powder, carbon dioxide.
Water spray jet

Extinguishing media which must not be used for safety reasons:
Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters
Wear protective equipment.

Additional information:
Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid skin and eye contact.
Danger of slipping on spilled product.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).
Wash away residue with plenty of water.
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.
Ensure that workrooms are adequately ventilated.
See advice in section 8
Avoid open flames and sources of ignition.

Hygiene measures:

Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly sealed.
Do not store near sources of heat or ignition, or reactive materials.
Do not store together with strong acids.

7.3. Specific end use(s)

Graffiti remover

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit category / Remarks	Regulatory list
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)-PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative	ECTLV
(2-Methoxymethylethoxy)propanol 34590-94-8			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
(2-Methoxymethylethoxy)propanol 34590-94-8	50	310	Exposure limit(s):	1	TRGS 900
2-Aminoethanol 141-43-5 [2-AMINOETHANOL]	3	7,6	Short Term Exposure Limit (STEL):	Indicative	ECTLV
2-Aminoethanol 141-43-5 [2-AMINOETHANOL]	1	2,5	Time Weighted Average (TWA):	Indicative	ECTLV
2-Aminoethanol 141-43-5			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
2-Aminoethanol 141-43-5	0,2	0,5	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
2-Aminoethanol 141-43-5			Skin designation:	Can be absorbed through the skin.	TRGS 900

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (freshwater)		19 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (marine water)		1,9 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	sewage treatment plant (STP)		4168 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	sediment (freshwater)				70,2 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	sediment (marine water)				7,02 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	Soil				2,74 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (intermittent releases)		190 mg/l				
2-Aminoethanol 141-43-5	aqua (freshwater)		0,07 mg/l				
2-Aminoethanol 141-43-5	aqua (marine water)		0,007 mg/l				
2-Aminoethanol 141-43-5	aqua (intermittent releases)		0,028 mg/l				
2-Aminoethanol 141-43-5	sediment (freshwater)				0,357 mg/kg		
2-Aminoethanol 141-43-5	sediment (marine water)				0,036 mg/kg		
2-Aminoethanol 141-43-5	Soil				1,29 mg/kg		
2-Aminoethanol 141-43-5	sewage treatment plant (STP)		100 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	inhalation	Long term exposure - systemic effects		308 mg/m3	
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	dermal	Long term exposure - systemic effects		283 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	oral	Long term exposure - systemic effects		36 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	inhalation	Long term exposure - systemic effects		37,2 mg/m3	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	dermal	Long term exposure - systemic effects		121 mg/kg	
2-Aminoethanol 141-43-5	Workers	inhalation	Long term exposure - systemic effects		1 mg/m3	
2-Aminoethanol 141-43-5	Workers	inhalation	Long term exposure - local effects		0,51 mg/m3	
2-Aminoethanol 141-43-5	Workers	dermal	Long term exposure - systemic effects		3 mg/kg	
2-Aminoethanol 141-43-5	General population	dermal	Long term exposure - systemic effects		1,5 mg/kg	
2-Aminoethanol 141-43-5	General population	oral	Long term exposure - systemic effects		1,5 mg/kg	
2-Aminoethanol 141-43-5	General population	inhalation	Long term exposure - systemic effects		0,18 mg/m3	
2-Aminoethanol 141-43-5	General population	inhalation	Long term exposure - local effects		0,28 mg/m3	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/suction at the workplace.

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	colourless
Odor	no valuation
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Initial boiling point	> 184 °C (> 363.2 °F)
Flammability	The product is not flammable.
Explosive limits	
lower	1,3 %(V); no information
upper	8,7 %(V);
Flash point	81 - 83 °C (177.8 - 181.4 °F); Flash Point, Pensky-Martens
Auto-ignition temperature	Not applicable, The product is not flammable.
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH (20 °C (68 °F); Conc.: 1 % product; Solvent: Demineralised water)	9,8 - 10,8 PH-value, potentiometer
pH (20 °C (68 °F); Conc.: 100 % product)	10,5 - 11,5 PH-value, potentiometer
Viscosity (kinematic)	Currently under determination
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	fully miscible
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure	Not determined
Density (20 °C (68 °F))	0,95 - 0,97 g/cm3 Density, oscillation
Relative vapour density:	Not determined
Particle characteristics	Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity
Reacts with acids: Heat released.
Reaction with oxidants.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
See section reactivity.

10.6. Hazardous decomposition products
None if used for intended purpose.
In case of fire toxic gases can be released.

SECTION 11: Toxicological information

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	LD50	8.740 mg/kg	rat	not specified
2-aminoethanol 141-43-5	LD50	1.089 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	LD50	9.510 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
2-aminoethanol 141-43-5	LD50	1.025 mg/kg	rabbit	not specified
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	LC50	55 - 60 mg/l		4 h	rat	not specified
2-aminoethanol 141-43-5	Acute toxicity estimate (ATE)	1,5 mg/l	dust/mist			Expert judgement
2-aminoethanol 141-43-5	LC50	1 - 5 mg/l		4 h	rat	not specified

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating	2 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating		human	not specified
2-aminoethanol 141-43-5	corrosive		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-aminoethanol 141-43-5	corrosive	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-aminoethanol 141-43-5	corrosive		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating		human	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating		rabbit	Draize Test
2-aminoethanol 141-43-5	Category 1 (irreversible effects on the eye)		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	not sensitising	Patch-Test	human	human repeat insult patch test
2-aminoethanol 141-43-5	not sensitising	Guinea pig maximisation test	guinea pig	not specified

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	yeast cytogenetic assay	with and without		OECD Guideline 481 (Genetic Toxicology: Saccharomyces cerevisiae, Mitotic Recombination Assay)
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	in vitro mammalian chromosome aberration test	with and without		JAPAN: Guidelines for Screening Mutagenicity Testing Of Chemicals
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-aminoethanol 141-43-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-aminoethanol 141-43-5	negative	in vitro mammalian chromosome aberration test	without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-aminoethanol 141-43-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	not carcinogenic	inhalation: vapour	2 years 6 h/day; 5 days/week	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm	two-generation study	inhalation: vapour	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
2-aminoethanol 141-43-5	NOAEL P 300 mg/kg NOAEL F1 1.000 mg/kg NOAEL F2 1.000 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
2-aminoethanol 141-43-5	May cause respiratory irritation.			

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL > 50 mg/l	inhalation	2 weeks (9 exposures) 6 hours/day; 5 days/week	rabbit	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL 1.000 mg/kg	oral: gavage	4 weeks daily	rat	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL 200 ppm	inhalation: vapour	13 weeks 6 hours/day; 5 days/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL 2.850 mg/kg	dermal	90 d 5 days/week	rabbit	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL > 1.000 mg/kg	dermal	4 weeks 4 hours/day; 5 days/week	rat	OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
2-aminoethanol 141-43-5	NOAEL 300 mg/kg	oral: feed	> 75 d daily	rat	other guideline:

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:
Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	LC50	> 1.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-aminoethanol 141-43-5	LC50	349 mg/l	96 h	Cyprinus carpio	EU Method C.1 (Acute Toxicity for Fish)
2-aminoethanol 141-43-5	NOEC	1,24 mg/l	41 d	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	LC50	1 - 10 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	EC50	1.919 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-aminoethanol 141-43-5	EC50	27,04 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	EC50	10 - 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-aminoethanol 141-43-5	NOEC	0,85 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	EC50	> 969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOEC	969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-aminoethanol 141-43-5	EC50	2,8 mg/l	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-aminoethanol 141-43-5	EC10	0,7 mg/l	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	EC50	10 - 100 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	EC10	4.168 mg/l	18 h	Pseudomonas putida	other guideline:
2-aminoethanol 141-43-5	EC10	> 1.000 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	inherently biodegradable	aerobic	94 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-aminoethanol 141-43-5	readily biodegradable	aerobic	> 80 %	19 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	readily biodegradable	aerobic	> 60 %	28 day	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	0,004	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-aminoethanol 141-43-5	-1,91	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
(2-Methoxymethylethoxy)propanol 34590-94-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-aminoethanol 141-43-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols, C9-11-iso-, C10-rich, 5EO 78330-20-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
In consultation with the responsible local authority, must be subjected to special treatment.
Incineration under controlled conditions is recommended.

Waste code

070199

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	98,0 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK:	WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)
Storage class according to TRGS 510:	10

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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