



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

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BONDERITE M-NT 1455T CONVERSION COATING

SDS No. : 153413
V015.0

Revision: 23.01.2024

printing date: 30.01.2024

Replaces version from: 08.03.2023

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

1.1. Product identifier

BONDERITE M-NT 1455T CONVERSION COATING

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

Intended use:

Product for the conversion treatment of metals

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 <https://mysds.henkel.com/index.html#/appSelection> 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):

Corrosive to metals	Category 1
H290 May be corrosive to metals.	
Acute toxicity	Category 4
H302 Harmful if swallowed.	
Route of Exposure: Oral	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

dihydrogen hexafluorotitanate(2-)

methanol

Phosphoric acid

Signal word:

Warning

Hazard statement:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Supplemental information

Contains: Formaldehyde May produce an allergic reaction.

**Precautionary statement:
Prevention**

P280 Wear protective gloves/eye protection.

**Precautionary statement:
Response**

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq 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 \geq 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
1-Propoxypropan-2-ol 1569-01-3 216-372-4 01-2119474443-37	5- < 10 %	Flam. Liq. 3, H226 Eye Irrit. 2, H319		
Poly(-5-vinyl-2-hydroxy-)-N-Benzyl-N-Methylglucamine 162006-87-3	2,5- < 25 %	Aquatic Chronic 2, H411	dermal:ATE = 2.500 mg/kg oral:ATE = 2.500 mg/kg	
dihydrogen hexafluorotitanate(2-) 17439-11-1 241-460-4 01-2119978266-24	1- < 5 %	Acute Tox. 3, Oral, H301 Acute Tox. 3, Dermal, H311 Skin Corr. 1B, H314 Acute Tox. 3, Inhalation, H331 Met. Corr. 1, H290		EU OEL
Phosphoric acid, manganese salt 10124-54-6 233-341-0	1- < 5 %	Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 3, H412		EU OEL
Phosphoric acid 7664-38-2 231-633-2 01-2119485924-24	1- < 5 %	Met. Corr. 1, H290 Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302	Skin Corr. 1B; H314; C >= 25 % Eye Irrit. 2; H319; C 10 - < 25 % Skin Irrit. 2; H315; C 10 - < 25 % ===== oral:ATE = 1.500 mg/kg	EU OEL
methanol 67-56-1 200-659-6 01-2119433307-44	0,1- < 1 %	Flam. Liq. 2, H225 Acute Tox. 3, Inhalation, H331 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Oral, H301 STOT SE 1, H370	STOT SE 1; H370; C >= 10 % STOT SE 2; H371; C 3 - < 10 % ===== oral:ATE = 300 mg/kg	EU OEL
Formaldehyde 50-00-0 200-001-8 01-2119488953-20	0,01- < 0,1 %	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Inhalation, H331 Acute Tox. 3, Oral, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317	Eye Irrit. 2; H319; C 5 - < 25 % STOT SE 3; H335; C >= 5 % Skin Sens. 1; H317; C >= 0,2 % Skin Irrit. 2; H315; C 5 - < 25 % Skin Corr. 1B; H314; C >= 25 % ===== oral:ATE = 100 mg/kg	

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".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

Eye contact:

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

In case of adverse health effects seek medical advice.

Ingestion:
Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Immediate medical treatment necessary.

4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

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:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

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.

Wear self-contained breathing apparatus.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Neutralize with acid-binding material (e.g. powdered limestone).

Take up with liquid-absorbing material (sand).

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

When diluting, always stir slowly the product into standing water.

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

When diluting, always stir slowly the product into standing water.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Keep container tightly sealed.

Store in a cool, frost-free place.

Keep only in original container.

Temperatures between + 5 °C and + 30 °C

7.3. Specific end use(s)

Product for the conversion treatment of metals

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
Dihydrogen hexafluorotitanate(2-) 17439-11-1 [FLUORIDES, INORGANIC]		2,5	Time Weighted Average (TWA):	Indicative	ECTLV
Dihydrogen hexafluorotitanate(2-) 17439-11-1		1	Exposure limit(s):	4 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Dihydrogen hexafluorotitanate(2-) 17439-11-1			Skin designation:	Can be absorbed through the skin.	TRGS 900
Dihydrogen hexafluorotitanate(2-) 17439-11-1			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Dihydrogen hexafluorotitanate(2-) 17439-11-1		1	Exposure limit(s):	4 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Dihydrogen hexafluorotitanate(2-) 17439-11-1			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Dihydrogen hexafluorotitanate(2-) 17439-11-1			Skin designation:	Can be absorbed through the skin.	TRGS 900
Manganese orthophosphate 10124-54-6 [MANGANESE AND INORGANIC MANGANESE COMPOUNDS (AS MN) (RESPIRABLE FRACTION)]		0,05	Time Weighted Average (TWA):	Indicative	ECTLV
Manganese orthophosphate 10124-54-6 [MANGANESE AND INORGANIC MANGANESE COMPOUNDS (AS MN) (INHALABLE FRACTION)]		0,2	Time Weighted Average (TWA):	Indicative	ECTLV
Manganese orthophosphate 10124-54-6		0,2	Exposure limit(s):	8 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Manganese orthophosphate 10124-54-6		0,02	Exposure limit(s):	8 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Manganese orthophosphate 10124-54-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Manganese orthophosphate 10124-54-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		2	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		1	Time Weighted Average (TWA):	Indicative	ECTLV
Orthophosphoric acid 7664-38-2			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

Orthophosphoric acid 7664-38-2		2	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
methanol 67-56-1 [Methanol]	200	260	Time Weighted Average (TWA):	Indicative	ECTLV
methanol 67-56-1			Skin designation:	Can be absorbed through the skin.	TRGS 900
methanol 67-56-1	100	130	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
methanol 67-56-1			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
methanol 67-56-1 [Methanol]			Skin designation:	Can be absorbed through the skin.	ECTLV
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,5	0,62	Time Weighted Average (TWA):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,3	0,37	Time Weighted Average (TWA):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,6		Short Term Exposure Limit (STEL):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]		0,74	Short Term Exposure Limit (STEL):		EU OELIII
Formaldehyde 50-00-0	0,3	0,37	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Formaldehyde 50-00-0			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

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
1-Propoxypropan-2-ol 1569-01-3	aqua (freshwater)		0,1 mg/l				
1-Propoxypropan-2-ol 1569-01-3	aqua (marine water)		0,01 mg/l				
1-Propoxypropan-2-ol 1569-01-3	aqua (intermittent releases)		1 mg/l				
1-Propoxypropan-2-ol 1569-01-3	sewage treatment plant (STP)		4 mg/l				
1-Propoxypropan-2-ol 1569-01-3	sediment (freshwater)				0,386 mg/kg		
1-Propoxypropan-2-ol 1569-01-3	sediment (marine water)				0,0386 mg/kg		
1-Propoxypropan-2-ol 1569-01-3	Soil				0,0185 mg/kg		
1-Propoxypropan-2-ol 1569-01-3	Air						no hazard identified
1-Propoxypropan-2-ol 1569-01-3	Predator						no potential for bioaccumulation
dihydrogen hexafluorotitanate(2-) 17439-11-1	aqua (freshwater)		0,89 mg/l				
dihydrogen hexafluorotitanate(2-) 17439-11-1	aqua (marine water)		0,89 mg/l				
dihydrogen hexafluorotitanate(2-) 17439-11-1	aqua (intermittent releases)		0,074 mg/l				
dihydrogen hexafluorotitanate(2-) 17439-11-1	sediment (freshwater)				16,69 mg/kg		
dihydrogen hexafluorotitanate(2-) 17439-11-1	Soil				13 mg/kg		
dihydrogen hexafluorotitanate(2-) 17439-11-1	sewage treatment plant (STP)		1,02 mg/l				
phosphoric acid 7664-38-2	sediment (freshwater)						no hazard identified
phosphoric acid 7664-38-2	sediment (marine water)						no hazard identified
phosphoric acid 7664-38-2	Air						no hazard identified
phosphoric acid 7664-38-2	Soil						no hazard identified
phosphoric acid 7664-38-2	Predator						no potential for bioaccumulation
methanol 67-56-1	aqua (freshwater)						no hazard identified
methanol 67-56-1	sediment (freshwater)						no hazard identified
methanol 67-56-1	aqua (marine water)						no hazard identified
methanol 67-56-1	Soil						no hazard identified
methanol 67-56-1	sewage treatment plant (STP)						no hazard identified
methanol 67-56-1	aqua (intermittent releases)						no hazard identified
methanol 67-56-1	sediment (marine water)						no hazard identified
formaldehyde 50-00-0	aqua (freshwater)		0,44 mg/l				
formaldehyde 50-00-0	aqua (marine water)		0,44 mg/l				
formaldehyde 50-00-0	Air						no hazard identified

formaldehyde 50-00-0	sediment (freshwater)				2,3 mg/kg		
formaldehyde 50-00-0	sediment (marine water)				2,3 mg/kg		
formaldehyde 50-00-0	Soil				0,2 mg/kg		
formaldehyde 50-00-0	sewage treatment plant (STP)		0,19 mg/l				
formaldehyde 50-00-0	Predator						no potential for bioaccumulation

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
1-Propoxypropan-2-ol 1569-01-3	Workers	dermal	Long term exposure - systemic effects		82,5 mg/kg	no hazard identified
1-Propoxypropan-2-ol 1569-01-3	Workers	inhalation	Long term exposure - systemic effects		263 mg/m3	no hazard identified
1-Propoxypropan-2-ol 1569-01-3	General population	dermal	Long term exposure - systemic effects		36 mg/kg	no hazard identified
1-Propoxypropan-2-ol 1569-01-3	General population	inhalation	Long term exposure - systemic effects		38 mg/m3	no hazard identified
1-Propoxypropan-2-ol 1569-01-3	General population	oral	Long term exposure - systemic effects		11 mg/kg	no hazard identified
dihydrogen hexafluorotitanate(2-) 17439-11-1	Workers	inhalation	Long term exposure - systemic effects		3,6 mg/m3	
dihydrogen hexafluorotitanate(2-) 17439-11-1	Workers	inhalation	Acute/short term exposure - systemic effects		3,6 mg/m3	
dihydrogen hexafluorotitanate(2-) 17439-11-1	Workers	inhalation	Long term exposure - local effects		3,6 mg/m3	
dihydrogen hexafluorotitanate(2-) 17439-11-1	Workers	dermal	Long term exposure - systemic effects		52 mg/kg	
dihydrogen hexafluorotitanate(2-) 17439-11-1	Workers	dermal	Acute/short term exposure - systemic effects		52 mg/kg	
phosphoric acid 7664-38-2	Workers	inhalation	Long term exposure - systemic effects		10,7 mg/m3	no hazard identified
phosphoric acid 7664-38-2	General population	inhalation	Long term exposure - systemic effects		4,57 mg/m3	no hazard identified
phosphoric acid 7664-38-2	General population	inhalation	Long term exposure - local effects		0,36 mg/m3	no hazard identified
phosphoric acid 7664-38-2	General population	oral	Long term exposure - systemic effects		0,1 mg/kg	no hazard identified
phosphoric acid 7664-38-2	Workers	inhalation	Long term exposure - local effects		1 mg/m3	no hazard identified
phosphoric acid 7664-38-2	Workers	inhalation	Acute/short term exposure - local effects		2 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Long term exposure - systemic effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Acute/short term exposure - systemic effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Long term exposure - local effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	inhalation	Acute/short term exposure - local effects		260 mg/m3	no hazard identified
methanol 67-56-1	Workers	dermal	Long term exposure - systemic effects		40 mg/kg	no hazard identified
methanol 67-56-1	Workers	dermal	Acute/short term exposure - systemic effects		40 mg/kg	no hazard identified
methanol 67-56-1	General population	inhalation	Long term exposure -		50 mg/m3	no hazard identified

			systemic effects			
methanol 67-56-1	General population	inhalation	Acute/short term exposure - systemic effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	inhalation	Long term exposure - local effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	inhalation	Acute/short term exposure - local effects		50 mg/m3	no hazard identified
methanol 67-56-1	General population	dermal	Long term exposure - systemic effects		8 mg/kg	no hazard identified
methanol 67-56-1	General population	dermal	Acute/short term exposure - systemic effects		8 mg/kg	no hazard identified
methanol 67-56-1	General population	oral	Long term exposure - systemic effects		8 mg/kg	no hazard identified
methanol 67-56-1	General population	oral	Acute/short term exposure - systemic effects		8 mg/kg	no hazard identified
formaldehyde 50-00-0	Workers	inhalation	Long term exposure - systemic effects		9 mg/m3	no hazard identified
formaldehyde 50-00-0	Workers	dermal	Long term exposure - systemic effects		240 mg/kg	no hazard identified
formaldehyde 50-00-0	Workers	dermal	Long term exposure - local effects		0,037 mg/cm2	no hazard identified
formaldehyde 50-00-0	General population	dermal	Long term exposure - local effects		0,012 mg/cm2	no hazard identified
formaldehyde 50-00-0	General population	oral	Long term exposure - systemic effects		4,1 mg/kg	no hazard identified
formaldehyde 50-00-0	General population	inhalation	Long term exposure - systemic effects		3,2 mg/m3	no hazard identified
formaldehyde 50-00-0	General population	inhalation	Long term exposure - local effects		0,1 mg/m3	no hazard identified
formaldehyde 50-00-0	General population	dermal	Long term exposure - systemic effects		102 mg/kg	no hazard identified
formaldehyde 50-00-0	Workers	inhalation	Long term exposure - local effects		0,375 mg/m3	no hazard identified
formaldehyde 50-00-0	Workers	inhalation	Acute/short term exposure - local effects		0,75 mg/m3	no hazard identified

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Dihydrogen hexafluorotitanate(2-) 17439-11-1 [Inorganic fluorine compounds (fluorides)]	Fluoride	Urine	Sampling time: End of shift.	4,0 mg/l	DE BGW		
Manganese orthophosphate 10124-54-6	Manganese	Blood	Sampling time: End of shift at end of work week.	20 µg/l	DE BAT		
methanol 67-56-1 [Methanol]	methanol	Urine	Sampling time period is for long-term exposures, at the end of the shift after several preceding ones./ Sampling time period is at end of exposure or at end of shift.	15 mg/l	DE BGW		

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.

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): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 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:

Protective eye equipment should conform to EN166.

Protective goggles

Protective eye equipment should conform to EN166.

Protective goggles

Skin protection:

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Suitable protective clothing

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	orange
Odor	mild
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	<= 0 °C (<= 32 °F) Aqueous solution
Initial boiling point	96 °C (204.8 °F) Supplier method
Flammability	Not applicable Aqueous solution
Explosive limits	Not applicable, Aqueous solution
Flash point	63 °C (145.4 °F); Supplier method Aqueous solution
Auto-ignition temperature	Not applicable, Aqueous solution
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.: 10 % product; Solvent: Demineralised water)	2,4 - 3,1 PH-value, potentiometer
pH (20 °C (68 °F); Conc.: 100 % product; Solvent: Demineralised water)	1,9
Viscosity (kinematic) (40 °C (104 °F);)	0,8 - 5 mm ² /s
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Soluble
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (50 °C (122 °F))	102 - 132 mbar (aqueous solution)
Vapour pressure (20 °C (68 °F))	23,4 mbar Values referring to water
Density (20 °C (68 °F))	1,15 g/cm ³ density, hydrometer
Relative vapour density: (20 °C)	1
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

Reaction with strong bases

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

General toxicological information:

The classification is based on an expert judgement with regard to existing specifications of the substances, the base/acid reserve and from In Vitro experiments.

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
1-Propoxypropan-2-ol 1569-01-3	LD50	2.490 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Poly(-5-vinyl-2-hydroxy-)-N-Benzyl-N- Methylglucamine 162006-87-3	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Poly(-5-vinyl-2-hydroxy-)-N-Benzyl-N- Methylglucamine 162006-87-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Phosphoric acid, manganese salt 10124-54-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
Phosphoric acid 7664-38-2	Acute toxicity estimate (ATE)	1.500 mg/kg		Expert judgement
methanol 67-56-1	Acute toxicity estimate (ATE)	300 mg/kg		Expert judgement
Formaldehyde 50-00-0	Acute toxicity estimate (ATE)	100 mg/kg		Expert judgement

Acute dermal toxicity:

Can penetrate into deeper parts of the skin and cause severe burns which are very painful and cure very slowly.

Hazardous substances CAS-No.	Value type	Value	Species	Method
1-Propoxypropan-2-ol 1569-01-3	LD50	3.775 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Poly(-5-vinyl-2-hydroxy-)-N-Benzyl-N- Methylglucamine 162006-87-3	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Formaldehyde 50-00-0	LD50	270 mg/kg	rabbit	not specified

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
Phosphoric acid, manganese salt 10124-54-6	LC50	> 5,07 mg/l	dust/mist	4 h	rat	OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method)

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
1-Propoxypropan-2-ol 1569-01-3	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Phosphoric acid 7664-38-2	corrosive	24 h	rabbit	not specified
methanol 67-56-1	not irritating	20 h	rabbit	BASF Test
Formaldehyde 50-00-0	corrosive	20 h	rabbit	equivalent or similar to 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
1-Propoxypropan-2-ol 1569-01-3	Category 2 (irritant)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
methanol 67-56-1	not irritating		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
1-Propoxypropan-2-ol 1569-01-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
dihydrogen hexafluorotitanate(2-) 17439-11-1	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
methanol 67-56-1	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Formaldehyde 50-00-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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
1-Propoxypropan-2-ol 1569-01-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1-Propoxypropan-2-ol 1569-01-3	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1-Propoxypropan-2-ol 1569-01-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
dihydrogen hexafluorotitanate(2-) 17439-11-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
dihydrogen hexafluorotitanate(2-) 17439-11-1	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Phosphoric acid 7664-38-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Phosphoric acid 7664-38-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Phosphoric acid 7664-38-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methanol 67-56-1	negative	in vitro mammalian cell micronucleus test	without		not specified
methanol 67-56-1	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Formaldehyde 50-00-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Formaldehyde 50-00-0	negative	bacterial reverse mutation assay (e.g Ames test)	without		Ames Test
dihydrogen hexafluorotitanate(2-) 17439-11-1	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
methanol 67-56-1	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus 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
dihydrogen hexafluorotitanate(2-) 17439-11-1		oral: feed	95 w, males; 99 w, females continuous	rat	male/female	EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity)
methanol 67-56-1	not carcinogenic	inhalation: vapour	18 m 19 h/d	mouse	male/female	equivalent or similar 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
1-Propoxypropan-2-ol 1569-01-3	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm		inhalation	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
dihydrogen hexafluorotitanate(2-) 17439-11-1	NOAEL P 28,4 mg/kg NOAEL F1 28,4 mg/kg	three-generation study	oral: drinking water	rat	not specified
Phosphoric acid 7664-38-2	NOAEL P 500 mg/kg NOAEL F1 500 mg/kg	one-generation study	oral: gavage	rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
methanol 67-56-1	NOAEL P 1,3 mg/l NOAEL F1 0,13 mg/l NOAEL F2 0,13 mg/l	Two generation study	inhalation	rat	equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

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
1-Propoxypropan-2-ol 1569-01-3		inhalation	6 hours per day 5 days per week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
dihydrogen hexafluorotitanate(2-) 17439-11-1	NOAEL ca. 25 ppm	oral: gavage	28 days once per day	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Phosphoric acid 7664-38-2	NOAEL 250 mg/kg	oral: gavage	6 w daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
methanol 67-56-1	NOAEL 6,63 mg/l	inhalation: vapour	4 weeks 6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
methanol 67-56-1	NOAEL 0,13 mg/l	inhalation: vapour	12 m 20 h/d	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Formaldehyde 50-00-0	NOAEL 15 mg/kg	oral: drinking water	up to 105 w daily ad libitum	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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
1-Propoxypropan-2-ol 1569-01-3	LC50	1.732 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)])
dihydrogen hexafluorotitanate(2-) 17439-11-1	LC50	172,4 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
dihydrogen hexafluorotitanate(2-) 17439-11-1	NOEC	4 mg/l	21 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
Phosphoric acid, manganese salt 10124-54-6	LC50	8,81 mg/l	96 h	Oncorhynchus mykiss	not specified
Phosphoric acid, manganese salt 10124-54-6	NOEC	1,67 mg/l	120 d	Oncorhynchus mykiss	not specified
Phosphoric acid 7664-38-2	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
methanol 67-56-1	LC50	15.400 mg/l	96 h	Lepomis macrochirus	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
methanol 67-56-1	NOEC	7.900 mg/l	200 h	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
Formaldehyde 50-00-0	LC50	6,7 mg/l	96 h	Morone saxatilis	OECD Guideline 203 (Fish, Acute Toxicity Test)
Formaldehyde 50-00-0	NOEC	48 mg/l	28 d	Oryzias latipes	OECD Guideline 215 (Fish, Juvenile Growth 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
1-Propoxypropan-2-ol 1569-01-3	EC50	> 100 mg/l	48 h	Daphnia magna	other guideline:
Poly(-5-vinyl-2-hydroxy-)-N- Benzyl-N-Methylglucamine 162006-87-3	EC50	> 10 - 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dihydrogen hexafluorotitanate(2-) 17439-11-1	EC50	48,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phosphoric acid, manganese salt 10124-54-6	LC50	27,24 mg/l	48 h	Daphnia magna	not specified
Phosphoric acid 7664-38-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

methanol 67-56-1	EC50	18.260 mg/l	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Formaldehyde 50-00-0	EC50	5,8 mg/l	48 h	Daphnia pulex	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
dihydrogen hexafluorotitanate(2-) 17439-11-1	NOEC	3,7 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Formaldehyde 50-00-0	NOEC	6,4 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
1-Propoxypropan-2-ol 1569-01-3	EC50	1.466 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Poly(-5-vinyl-2-hydroxy-)-N- Benzyl-N-Methylglucamine 162006-87-3	EC50	> 1 - 10 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Poly(-5-vinyl-2-hydroxy-)-N- Benzyl-N-Methylglucamine 162006-87-3	NOEC	> 0,1 - 1 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
dihydrogen hexafluorotitanate(2-) 17439-11-1	EC50	10,82 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
dihydrogen hexafluorotitanate(2-) 17439-11-1	EC10	1,31 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphoric acid, manganese salt 10124-54-6	EC50	> 27,71 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphoric acid, manganese salt 10124-54-6	NOEC	3,08 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphoric acid 7664-38-2	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphoric acid 7664-38-2	NOEC	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	EC50	22.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Formaldehyde 50-00-0	EC50	4,89 mg/l	72 h	Desmodesmus subspicatus	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
1-Propoxypropan-2-ol 1569-01-3	EC0	1.000 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
dihydrogen hexafluorotitanate(2-) 17439-11-1	NOEC	231 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Phosphoric acid, manganese salt 10124-54-6	EC50	> 1.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Phosphoric acid 7664-38-2	IC50	270 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
methanol 67-56-1	IC50	> 1.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Formaldehyde 50-00-0	EC50	19 mg/l	3 h	activated sludge	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
1-Propoxypropan-2-ol 1569-01-3	readily biodegradable	aerobic	91,5 %	28 d	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Formaldehyde 50-00-0	readily biodegradable	aerobic	93 - 95 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

12.3. Bioaccumulative potential

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

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
dihydrogen hexafluorotitanate(2-) 17439-11-1	53 - 58			not specified	other guideline:
methanol 67-56-1	< 10	72 h		Leuciscus idus melanotus	not specified

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
1-Propoxypropan-2-ol 1569-01-3	0,621	20 °C	QSAR (Quantitative Structure Activity Relationship)
methanol 67-56-1	-0,77		other guideline:
Formaldehyde 50-00-0	0,35	25 °C	QSAR (Quantitative Structure Activity Relationship)

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
1-Propoxypropan-2-ol 1569-01-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
dihydrogen hexafluorotitanate(2-) 17439-11-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Phosphoric acid 7664-38-2	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
methanol 67-56-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Formaldehyde 50-00-0	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.

Waste code

060199

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

ADR	3264
RID	3264
ADN	3264
IMDG	3264
IATA	3264

14.2. UN proper shipping name

ADR	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro titanic acid,Phosphoric acid)
RID	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro titanic acid,Phosphoric acid)
ADN	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro titanic acid,Phosphoric acid)
IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro titanic acid,Phosphoric acid)
IATA	Corrosive liquid, acidic, inorganic, n.o.s. (Hexafluoro titanic acid,Phosphoric acid)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
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	Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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)	5,2 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 2: significantly water endangering (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: 8B

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:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H370 Causes damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- 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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