



## Safety Data Sheet according to Regulation (EC) No1907/2006

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SDS No. : 46698  
V006.2

BONDERITE M-CR 1500 known as Alodine 1500

Revision: 18.03.2014  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

BONDERITE M-CR 1500 known as Alodine 1500

#### Contains:

Chromium trioxide  
Dihydrogen hexafluorozirconate(2-)

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

Intended use:  
Chromating Products for Metals

#### 1.3. Details of the supplier of the safety data sheet

Henkel Belgium N.V.  
Havenlaan 16  
1080 Brussels

Belgium

Phone: +32 (2) 421 2711  
Fax-no.: +32 (2) 420 7025

ua-productsafety.de@henkel.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):**

Acute toxicity	Category 4
H302 Harmful if swallowed.	
Route of Exposure: Oral	
Acute toxicity	Category 4
H332 Harmful if inhaled.	
Route of Exposure: Inhalation	
Acute toxicity	Category 4
H312 Harmful in contact with skin.	
Route of Exposure: Dermal	
Skin corrosion	Category 1A
H314 Causes severe skin burns and eye damage.	
Respiratory sensitizer	Category 1
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Germ cell mutagenicity	Category 1B
H340 May cause genetic defects.	
Carcinogenicity	Category 1A
H350 May cause cancer.	
Toxic to reproduction	Category 2
H361f Suspected of damaging fertility.	
Specific target organ toxicity - single exposure	Category 3
H335 May cause respiratory irritation.	
Target organ: respiratory tract irritation	
Specific target organ toxicity - repeated exposure	Category 2
H373 May cause damage to organs through prolonged or repeated exposure.	
Route of Exposure: Inhalation	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

**Classification (DPD):**

carcinogenic, category 1  
R45 May cause cancer.  
T - Toxic  
R23 Toxic by inhalation.  
Xn - Harmful  
R21/22 Harmful in contact with skin and if swallowed.  
Mutagen category 2.  
R46 May cause heritable genetic damage.  
Xn - Harmful  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
Sensitizing  
R42/43 May cause sensitization by inhalation and skin contact.  
C - Corrosive  
R35 Causes severe burns.  
N - Dangerous for the environment  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2. Label elements****Label elements (CLP):**

<b>Hazard pictogram:</b>		
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<b>Signal word:</b>	Danger
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<b>Hazard statement:</b>	H340 May cause genetic defects. H350 May cause cancer. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
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<b>Supplemental information</b>	Restricted to professional users. Can attack glass and vitreous materials.
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<b>Precautionary statement:</b>	P260 Do not breathe mist/spray.
<b>Prevention</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection.

<b>Precautionary statement:</b>	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>Response</b>	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. P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**Label elements (DPD):**

T - Toxic

N - Dangerous for the environment



**Risk phrases:**

- R45 May cause cancer.
- R46 May cause heritable genetic damage.
- R35 Causes severe burns.
- R23 Toxic by inhalation.
- R21/22 Harmful in contact with skin and if swallowed.
- R42/43 May cause sensitization by inhalation and skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

- S53 Avoid exposure - obtain special instructions before use.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S28 After contact with skin, wash immediately with plenty of water.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S23 Do not breathe vapour.

**Additional labeling:**

- Restricted to professional users.
- Can attack glass and vitreous materials.

**Contains:**

- Chromium trioxide,
- Dihydrogen hexafluorozirconate(2-)

**2.3. Other hazards**

- None if used properly.
- The classification as corrosive R35/H314 1A is due to the extreme pH.

**SECTION 3: Composition/information on ingredients**

**Base substances of preparation:**

- inorganic acids

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Chromium trioxide 1333-82-0	215-607-8 01-2119458868-17	1- 5 %	Germ cell mutagenicity 1B H340 Carcinogenicity 1A H350 Toxic to reproduction 2 H361f Oxidizing solids 1 H271 Acute toxicity 3; Oral H301 Acute toxicity 2; Dermal H310 Acute toxicity 2; Inhalation H330 Skin corrosion 1A H314 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317 Specific target organ toxicity - repeated exposure 1 H372 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
Dihydrogen hexafluorozirconate(2-) 12021-95-3	234-666-0	1- 5 %	Acute toxicity 3; Oral H301 Acute toxicity 3; Dermal H311 Skin corrosion 1B H314 Acute toxicity 2; Inhalation H330

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

**Declaration of ingredients according to DPD (EC) No 1999/45:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Chromium trioxide 1333-82-0	215-607-8 01-2119458868-17	1 - 5 %	O - Oxidizing; R9 carcinogenic, category 1; R45 Toxic for reproduction - category 3.; R62 T+ - Very toxic; R26 T - Toxic; R24/25, R48/23 C - Corrosive; R35 R42/43 N - Dangerous for the environment; R50/53 Mutagen category 2.; R46
Dihydrogen hexafluorozirconate(2-) 12021-95-3	234-666-0	1 - 5 %	T - Toxic; R23/24/25 C - Corrosive; R34

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.  
Substances without classification may have community workplace exposure limits available.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

**Skin contact:**

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

**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.  
Immediate medical treatment necessary.

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

Causes burns.

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Redness, inflammation.

INGESTION: Nausea, vomiting, diarrhoea, 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 self-contained breathing apparatus.

Wear full protective clothing.

**Additional information:**

In case of fire, keep containers cool with water spray.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid skin and eye contact.

Wear protective equipment.

Keep unprotected persons away.

**6.2. Environmental precautions**

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

Inform authorities in the event of product spillage to water courses or sewage systems.

**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).

Do not use any organic materials (e.g. sawmill waste).

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

- 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

#### Hygiene measures:

- Keep away from food, beverages and animal feed.
- Do not eat, drink or smoke when using this product.
- Wash hands before work breaks and after finishing work.
- Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Store only in the original container.
- The alterations have no negative influence on the product quality and stability.
- Alterations are reversible after warming to room temperature.
- Do not use packing made of metal.
- Keep container in a well ventilated place.
- Keep container tightly sealed.
- Store in a cool place.
- Must be stored in a room with spill collection facilities.
- Do not store near sources of heat or ignition, or reactive materials.
- Do not store together with flammable substances/solutions.
- Do not store together with substances which can be oxidized.
- Do not store together with strong bases or very alkaline substances.

### 7.3. Specific end use(s)

- Chromating Products for Metals

<b>SECTION 8: Exposure controls/personal protection</b>
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**8.1. Control parameters****Occupational Exposure Limits**Valid for  
Germany

Ingredient	ppm	mg/m <sup>3</sup>	Type	Category	Remarks
FLUORIDES, INORGANIC 12021-95-3		2,5	Time Weighted Average (TWA):	Indicative	ECLTV
Dihydrogen hexafluorozirconate(2-) 12021-95-3			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
Dihydrogen hexafluorozirconate(2-) 12021-95-3		1	AGW:	1	TRGS 900
Dihydrogen hexafluorozirconate(2-) 12021-95-3		1	AGW:	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 hexafluorozirconate(2-) 12021-95-3			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Dihydrogen hexafluorozirconate(2-) 12021-95-3		1	AGW:	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 hexafluorozirconate(2-) 12021-95-3			Skin designation:	Can be absorbed through the skin.	TRGS 900
Dihydrogen hexafluorozirconate(2-) 12021-95-3			Skin designation:	Can be absorbed through the skin.	TRGS 900
Dihydrogen hexafluorozirconate(2-) 12021-95-3			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Chromium trioxide 1333-82-0	aqua (freshwater)					0,0034 mg/L	
Chromium trioxide 1333-82-0	aqua (marine water)					0,0034 mg/L	
Chromium trioxide 1333-82-0	STP					0,21 mg/L	
Chromium trioxide 1333-82-0	sediment (freshwater)				0,15 mg/kg		
Chromium trioxide 1333-82-0	sediment (marine water)				0,00015 mg/kg		
Chromium trioxide 1333-82-0	soil				0,031 mg/kg		
Chromium trioxide 1333-82-0	oral				17000000 mg/kg		



**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Chromium trioxide 1333-82-0	worker	inhalation	Acute/short term exposure - local effects		0,01 mg/m <sup>3</sup>	
Chromium trioxide 1333-82-0	worker	inhalation	Long term exposure - local effects		0,01 mg/m <sup>3</sup>	

**Biological Exposure Indices:**

Ingredient	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Fluoride	Creatinine in urine	Sampling time: End of shift.	7,0 mg/g	DE BAT		
Dihydrogen hexafluorozirconate(2-) 12021-95-3	Fluoride	Creatinine in urine	Sampling time: Prior to shift.	4,0 mg/g	DE BAT		

**8.2. Exposure controls:**

## Engineering controls:

Ensure good ventilation/suction at the workplace.  
Avoid generation and inhalation of aerosols.

## Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter.  
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:

Tightly fitting safety goggles  
The workplace should be equipped with an emergency shower and eye-rinsing facility.

## Skin protection:

Protective clothing that covers arms and legs.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	liquid liquid light red
Odor	no valuation
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 1,0 % product; Solvent: Demineralised water)	2,3 - 2,7
pH (20 °C (68 °F); Conc.: 100 % product; Solvent: Demineralised water)	1,4

Initial boiling point	100 - 120 °C (212 - 248 °F)
Flash point	No flash point up to 100 °C
Decomposition temperature	No data available / Not applicable
Vapour pressure (50 °C (122 °F))	102 - 132 mbar
Density (20 °C (68 °F))	1,038 - 1,058 g/cm <sup>3</sup>
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	fully miscible
Solidification temperature	-4 - -2 °C (24.8 - 28.4 °F)
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

## 9.2. Other information

No data available / Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with alkalis: Heat generated.  
Can attack glass and vitreous materials.

### 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 toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.  
The classification as corrosive R35/H314 1A is due to the extreme pH.

#### STOT-single exposure:

May cause respiratory irritation.

#### STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.  
Route of exposure: inhalation

**Oral toxicity:**

Harmful if swallowed.

**Inhalative toxicity:**

Harmful if inhaled.

**Dermal toxicity:**

Harmful in contact with skin.

**Skin irritation:**

Causes severe skin burns and eye damage.

**Sensitizing:**

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Mutagenicity:**

May cause genetic defects

**Carcinogenicity:**

May cause cancer

**Reproductive toxicity:**

Suspected of damaging fertility.

**Acute oral toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Chromium trioxide 1333-82-0	LD50	80 - 114 mg/kg	oral		rat	

**Acute inhalative toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Chromium trioxide 1333-82-0	Acute toxicity estimate (ATE)	0,31 mg/l	inhalation			Expert judgement
Chromium trioxide 1333-82-0	LC50	> 0,31 mg/l		4 h	rat	

**Acute dermal toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Chromium trioxide 1333-82-0	LD50	57 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Chromium trioxide 1333-82-0	highly irritating		rabbit	

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Chromium trioxide 1333-82-0	corrosive		rabbit	

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Chromium trioxide 1333-82-0	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		

**Repeated dose toxicity**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Chromium trioxide 1333-82-0	NOAEL=0,0007 mg/l	inhalation	90 days taeglich 20 Stunden	rat	

**SECTION 12: Ecological information****General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Locally harmful for aquatic and landliving organisms because of low pH and corrosive properties.

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

**Other adverse effects:**

The product contains wastewater-relevant heavy metals. Officially determined threshold values for wastewater (also for partial flows, if applicable) and local discharge guidelines must be observed.

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.

**12.1. Toxicity****Ecotoxicity:**

Toxic to aquatic life with long lasting effects.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Chromium trioxide 1333-82-0	NOEC	0,105 mg/l	Fish	60 d	Salvelinus namaycush	OECD 210 (fish early lite stage toxicity test)
	LC50	52 mg/l	Fish	96 h	Carassius auratus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Chromium trioxide 1333-82-0	EC50	0,3 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dihydrogen hexafluorozirconate(2-) 12021-95-3	LC50	18 - 240 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)

**12.2. Persistence and degradability****Persistence and degradability:****Ultimate biodegradation:**

Inorganic product: Decomposition not affected.

**12.3. Bioaccumulative potential / 12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

Hazardous components CAS-No.	PBT/vPvB
Chromium trioxide 1333-82-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**12.6. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Product disposal:**

In consultation with the responsible local authority, must be subjected to special treatment.  
Dispose of in accordance with local and national regulations.

**Disposal of uncleaned packages:**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**Recommended cleaning agents**

Clean the packaging with water.

**Waste code**

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.

060405

**SECTION 14: Transport information****14.1. UN number**

ADR	3264
RID	3264
ADNR	3264
IMDG	3264
IATA	3264

**14.2. UN proper shipping name**

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

**14.3. Transport hazard class(es)**

ADR	8
RID	8
ADNR	8
IMDG	8
IATA	8

**14.4. Packaging group**

ADR	II
RID	II
ADNR	II
IMDG	II
IATA	II

**14.5. Environmental hazards**

ADR	Marine pollutant
RID	Marine pollutant
ADNR	Marine pollutant
IMDG	Marine pollutant
IATA	not applicable

**14.6. Special precautions for user**

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

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**VOC content 0,00 %  
(1999/13/EC)

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Germany):**

WGK:	WGK = 3, highly water endangering product. Classification according to the mixture rules in German VwVwS regulation annex 4 from 27 July 2005.
Storage class according to TRGS 510:	6.1D
General remarks (DE):	This product is in scope of the German regulation "Chemikalienverbotsverordnung"

**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:

- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R24/25 Toxic in contact with skin and if swallowed.
- R26 Very toxic by inhalation.
- R34 Causes burns.
- R35 Causes severe burns.
- R42/43 May cause sensitization by inhalation and skin contact.
- R45 May cause cancer.
- R46 May cause heritable genetic damage.
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R9 Explosive when mixed with combustible material.
- H271 May cause fire or explosion; strong oxidizer.
- H301 Toxic if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H361f Suspected of damaging fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**Further information:**

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.