

# Safety Data Sheet




According to 1907/2006/EC (REACH), 453/2010/EC Phos-Chek 3x6 Fluorine Free - [UNIPOL-FF 3/6]

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** Phos-Chek 3x6 Fluorine Free - [UNIPOL-FF 3/6]
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Fire-extinguishing. For professional use only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** AUXQUIMIA, S.A.U.  
Polígono Industrial de Baiña, parcela 23  
33682 Baiña (Mieres) - Asturias - Spain  
Phone.: +34 985 242 945 / +34 985 242 946 Fax:  
+34 985 253 809 [sds@perimetersolutions.com](mailto:sds@perimetersolutions.com)  
[www.auxquimia.com](http://www.auxquimia.com)
- 1.4 Emergency telephone number:** +34 985 242 945 / +34 985 242 946

## SECTION 2: HAZARDS IDENTIFICATION


- 2.1 Classification of the substance or mixture:**  
**NFPA:**  
Health Hazards: 0  
Flammability Hazards: 0  
Instability Hazards: 0  
Special Hazards: Non-applicable  
**CLP Regulation (EC) n° 1272/2008:**  
The product is not classified as dangerous according to CLP Regulation (EC) n° 1272/2008.
- 2.2 Label elements: NFPA:**  
  
**CLP Regulation (EC) n° 1272/2008:**  
**Hazard statements:**  
Non-applicable  
**Precautionary statements:**  
Non-applicable  
**Supplementary information:**  
EUH210: Safety data sheet available on request
- 2.3 Other hazards:**  
Non-applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**  
Non-applicable
- 3.2 Mixture:**  
**Chemical description:** Aqueous solution of tensoactives **Components:**  
In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol ATP CLP00	5 - <10 %

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EC: 203-961-6 Index: 603-096-00-8 REACH: 01-2119475104-44-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)**

Identification	Chemical name/Classification		Concentration
CAS: 107-21-1 EC: 203-473-3 Index: 603-027-00-1 REACH: 01-2119456816-28XXXX	<b>Ethane-1,2-diol</b>	ATP CLP00	5 - <10 %
	Regulation 1272/2008	Acute Tox. 4: H302 - Warning 	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Amphoteric hydrocarbon surfactant 6201200000</b>	Self-classified	0,1 - <2 %
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning 	
CAS: 11138-66-2 EC: 234-394-2 Index: Non-applicable REACH: Non-applicable	<b>Xanthan gum</b>	Not classified	0,1 - <2 %
	Regulation 1272/2008		
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Amphoteric hydrocarbon surfactant 6201220000</b>	Self-classified	0,1 - <2 %
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning 	

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

**SECTION 4: FIRST AID MEASURES**

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### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. **By inhalation:**

This product does not contain substances classified as dangerous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

#### **By skin contact:**

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Security Data Sheet **By eye contact:**

This product does not contain substances classified as dangerous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes. **By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed: Nonapplicable

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment.

Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### **Additional provisions:**

## SECTION 5: FIREFIGHTING MEASURES (continue)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### 6.2 Environmental precautions:

This product is not classified as dangerous to the environment. Keep product away from drains, surface and underground water.

### 6.3 Methods and material for containment and cleaning up: It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections: See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling: A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

#### B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

#### C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

#### A.- Technical measures for storage

Minimum Temp.: 0 °C

Maximum Temp.: 40 °C

#### B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

Identification		Environmental limits	
		TLV-TWA	
		TLV-STEL	
		Year	

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
	Oral				
	Dermal				
	Inhalation				
	Oral				
	Dermal				
	Inhalation				

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
	Oral				
	Dermal				
	Inhalation				
	Oral				
	Dermal				
	Inhalation				

Identification					
	STP		Fresh water		
	Soil		Marine water		
	Intermittent		Sediment (Fresh water)		
	Oral		Sediment (Marine water)		
	STP		Fresh water		
	Soil		Marine water		
	Intermittent		Sediment (Fresh water)		
	Oral		Sediment (Marine water)		

Pictogram	PPE	Labelling	CEN Standard	Remarks

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D.-



Mandatory hand protection

Chemical protective gloves



EN 374-1:2003  
EN 374-3:2003/AC:2006  
EN 420:2003+A1:2009



Replace the gloves at any sign of deterioration.

Ocular and facial protection

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against liquid splash		EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer 's instructions. Use if there is a risk of splashing.

**Bodily protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
E.- F.- 	Work clothing		EN ISO 13688:2013	For professional use only.
	Anti-slip work shoes		EN ISO 20347:2012 EN ISO 20344:2011	None

**Additional emergency measures**

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental release of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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### Phos-Chek 3x6 Fluorine Free - [UNIPOL-FF 3/6]

#### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet. **Appearance:**

Physical state at 20 °C: Liquid  
Appearance: Viscous  
Color: Yellowish Odor: Characteristic

#### **Volatility:**

Boiling point at atmospheric pressure: Non-applicable \* Vapour pressure at 20 °C: Non-applicable \*  
Vapour pressure at 50 °C: Non-applicable \*  
Evaporation rate at 20 °C: Non-applicable \*

#### **Product description:**

Density at 20 °C: 1025 - 1065 kg/m<sup>3</sup>  
Relative density at 20 °C: Non-applicable \* Dynamic viscosity at 20 °C: 95 cP  
Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: >20,5 cSt  
Concentration: Non-applicable \*  
pH: 7 - 8  
Vapour density at 20 °C: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Partition coefficient n-octanol/water 20 °C: Non-applicable \*  
Solubility in water at 20 °C: Non-applicable \*  
Solubility properties: Highly water-soluble  
Decomposition temperature: Non-applicable \*  
Melting point/freezing point: Non-applicable \*

#### **Flammability:**

Flash Point: Non Flammable (>60 °C)  
Autoignition temperature: Non-applicable \*  
Lower flammability limit: Non-applicable \* Upper flammability limit:  
Non-applicable \*

#### 9.2 Other information:

Surface tension at 20 °C: Non-applicable \*  
Refraction index: 1,362

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

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**10.1 Reactivity:**

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

<b>10.5</b>	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
<b>10.6 Haz</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**Incompatible materials:**

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure: A.- Ingestion:

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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**SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

**B- Inhalation:**

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. C- Contact with the skin and the eyes:
  - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3. D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
    - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
    - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
    - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. E- Sensitizing effects:
      - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects. For more information see section 3.
      - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. **Other information:** Non-applicable **Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Ethane-1,2-diol CAS: 107-21-1 EC: 203-473-3	500 mg/kg	9530 mg/kg	Rat
	Non-applicable		Rabbit

**SECTION 12: ECOLOGICAL INFORMATION**

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The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

Identification		Acute toxicity	Specie	Genus
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	LC50	1300 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	2850 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	53 mg/L (192 h)	Microcystis aeruginosa	Algae
Ethane-1,2-diol CAS: 107-21-1 EC: 203-473-3	LC50	53000 mg/L (96 h)	Pimephales promelas	Fish
	EC50	51000 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	24000 mg/L (168 h)	Selenastrum capricornutum	Algae

**12.2 Persistence and degradability:**

**SECTION 12: ECOLOGICAL INFORMATION (continue)**

**12.3**

Identification	Degradability	Biodegradability	
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BOD5	0.25 g O2/g	Concentration 100 mg/L
	COD	2.08 g O2/g	Period 28 days
	BOD5/COD	0.12	% Biodegradable 92 %
Ethane-1,2-diol CAS: 107-21-1 EC: 203-473-3	BOD5	0.47 g O2/g	Concentration 100 mg/L
	COD	1.29 g O2/g	Period 14 days
	BOD5/COD	0.36	% Biodegradable 90 %

**12.4**

**12.5**

**12.6**

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**Bioaccumulative potential:**

Identification	Bioaccumulation potential	
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BCF	0,46
	Pow Log	0,56
	Potential	Low
Ethane-1,2-diol CAS: 107-21-1 EC: 203-473-3	BCF	10
	Pow Log	-1,36
	Potential	Low

Identification	Absorption/desorption		Volatility	
	Koc		Henry	
	Conclusion		Dry soil	
	Surface tension		Moist soil	
	Koc		Henry	
	Conclusion		Dry soil	
	Surface tension		Moist soil	

applicable

**Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 05 09	Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

**Type of waste (Regulation (EU) No 1357/2014):** Non-

applicable

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as nondangerous residue.

We do not recommended disposal down the drain. See paragraph 6.2. **Regulations related**

**to waste management:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

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**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated for transport (ADR/RID,IMDG,IATA)

**SECTION 15: REGULATORY INFORMATION**

**SECTION 15: REGULATORY INFORMATION (continue)**

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Relevant instructions for use:**

This product is intended for the production of low expansion foam for fire extinguishing purposes. For this purpose it should be diluted in water and used with appropriate foam-generating equipment. Use at 3% on hydrocarbon and 6% on polar solvent fires.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

**Modifications related to the previous security card which concerns the ways of managing risks. : CLP Regulation (EC) n° 1272/2008:**

- Supplementary information

**Texts of the legislative phrases mentioned in section 3.:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 **CLP Regulation (EC) n° 1272/2008:**

Acute Tox. 4: H302 - Harmful if swallowed Eye

Irrit. 2: H319 - Causes serious eye irritation

**Classification procedure:**

Non-applicable

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. **Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu> <http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

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**SECTION 16: OTHER INFORMATION (continue)**

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol–water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

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