

# Safety Data Sheet

AB 110815

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Europe Date of revision 12.12.2024 Version 0.06

## 1. Identification of the Substance and the Company

#### **1.1 Product identifier**

Product name	3-Aminopropyltriethoxysilane; 98%
Index number	612-108-00-0
CAS number	919-30-2
Product code	AB110815

#### 1.2 Identified uses

Chemicals used in research and development, analysis and production

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

Company details	abcr GmbH Im Schlehert 10 76187 Karlsruhe Germany
Telephone	+49 (0)721 950 610
Email	sdb@abcr.com

#### 1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463 (multilingual)

## 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition Substance

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

H302	ACUTE TOXICITY (oral)	Category 4
H314	SKIN CORROSION/IRRITATION	Category 1B
H318	SERIOUS EYE DAMAGE/ EYE IRRITATION	Category 1
H317	SKIN SENSITIZATION	Category 1

2.2 Label elements

Hazard pictograms



Danger

Signal word



Hazard statements	H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.
Precautionary statements	<ul> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P310 - Immediately call a POISON CENTER or doctor.</li> <li>P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</li> <li>P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> </ul>
Hazardous ingredients	3-Aminopropyltriethoxysilane; 98%
Supplemental label elements	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,	Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

mixtures and articles

Other hazards which do not result in classification

PBT	Р	В	Т	vPvB	vP	vB	
No	N/A	No	No	No	N/A	No	

None known.

See Section 11 for more detailed information on health effects and symptoms.

## 3. Composition/information on ingredients

## Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors and ATEs	Туре
3-Aminopropyltriethoxysilane; 98%	EC: 213-048-4 CAS: 919-30-2 Index: 612-108-00-0	100	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 1570 mg/ kg	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Туре

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.



## 4. First aid measures

## 4.1 Description of first aid measures

Eye contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

redness

Potential acute health effects	
Eye contact	Causes serious eye damage.
Skin contact	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Harmful if swallowed.
Over-exposure signs/symptom	S
Eye contact	Adverse symptoms may include the following: pain watering



Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Adverse symptoms may include the following: stomach pains
Indication of any imn	nediate medical attention and special treatment needed
Notes to physician	In case of inhalation of decomposition products in a fire, sympto

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments No specific treatment.

## 5. Fire-fighting measures

#### 5.1 Extinguishing media

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Suitable extinguishing media	Use dry chemical or CO <sub>2</sub> alcohol-resistant foam
Unsuitable extinguishing media	Do not use water jet.

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

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Hazards from the substance or mixture	Combustible In a fire or if heated, a pressure increase will occur and the container may burst.	
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides	
5.3 Advice for firefighters		
Special precautions for fire- fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

## 6. Accidental release measures

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

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.



For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## 7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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



Keep under inert atmosphere.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 Specific end use(s)

Recommendations	Not available.
Industrial sector specific	Not available.
solutions	

## 8. Exposure controls/Personal protective equipment

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 482 (Workplace atmospheres -General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived effect levels**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
3-Aminopropyltriethoxysilane; 98%	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3,5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m³	Workers	Systemic

#### Predicted effect concentrations

No PECs available.

#### 8.2 Exposure controls

# Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.



## Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	butyl rubber
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance	
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Appearance	
Physical state	Liquid.
Color	Colorless to light yellow.
Odor	Amine-like.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	122 °C [30 mm Hg]
Flammability (solid, gas)	Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Upper/lower flammability or explosive limits	Lower: 0,8% Upper: 4,5%
Flash point	Closed cup: 96°C
Auto-ignition temperature	300°C
Decomposition temperature	>217°C
Viscosity	Dynamic: 2 mPa·s



Not available.

Solubility at room temperature	Insoluble Reacts	[H2O]
Partition coefficient: n-octanol/ water	1,7	
Vapor pressure	1,1 kPa [room 2,7 kPa [50°C	n temperature] ;]
Evaporation rate	Not available.	
Relative density	Not available.	
Density	0,942 g/cm³ [2	20°C]
Vapor density	>1 [Air = 1]	
Explosive properties	Not available.	
Oxidizing properties	Not available.	
Particle characteristics		
Median particle size	Not applicable	
9.2 Other information		
Burning time	Not applicable	Э.
Burning rate	Not applicable	е.
No additional information.		

## 10. Stability and reactivity

#### **10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

Moisture-reactive material. Handle under inert gas.

#### 10.3 Possibility of hazardous reactions

Oxidizing agent.

#### 10.4 Conditions to avoid

Reactive or incompatible with the following materials: oxidizing materials and acids. May decompose on exposure to moist air or water. exposure to heat

#### **10.5 Incompatible materials**

Reactive or incompatible with the following materials: water acids oxidizing agents Water and acids react with this material to liberate ethanol.

#### 10.6 Hazardous decomposition products

Ethanol



## 11. See toxicological information

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
3-Aminopropyltriethoxysilane; 98%	LD50 Dermal	Rabbit	4,29 g/kg	-
	LD50 Oral	Rat	1,57 g/kg	-

Conclusion/Summary Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
3-Aminopropyltriethoxysilane; 98%	1570	4290	N/A	N/A	N/A

#### Irritation/Corrosion

**Conclusion/Summary** Not available.

#### Sensitizer

Product/ingredient name	Route of exposure	Species	Result
3-Aminopropyltriethoxysilane; 98%	skin	Guinea pig	Sensitizing
Conclusion/Summary	Not available	9.	
Mutagenicity			
Conclusion/Summary	Not available	Э.	
Carcinogenicity			
Conclusion/Summary	Not available	Э.	
Reproductive toxicity			
Conclusion/Summary	Not available	9.	
Teratogenicity			
Conclusion/Summary	Not available	Э.	
Information on the likely routes of exposure	Not available	9.	
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#### Potential acute health effects

Inhalation

No known significant effects or critical hazards.



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Skin contact	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Harmful if swallowed.
Eye contact	Causes serious eye damage.

## Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	No specific data.
Ingestion	Adverse symptoms may include the following: stomach pains
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye contact	Adverse symptoms may include the following: pain watering redness

# Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure Potential immediate effects	Not available.
Potential delayed effects Long term exposure	Not available.
Potential immediate effects	Not available.

Potential delayed effects Not available.

## Potential chronic health effects

Not available.

Conclusion/Summary	Not available.
General	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

#### **11.2 Information on other hazards**

## 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.



# 12. Ecological Information

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
3-Aminopropyltriethoxysilane; 98%	EC50 603 mg/l	Algae - Scenedesmus subspicatus	72 hours
	EC50 331 mg/l	Daphnia - <i>Daphia magna</i>	48 hours
Conclusion/Summary	Not available.		

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3-Aminopropyltriethoxysilane; 98%	-	67 % - 28 days	-	-
Conclusion/Summary	Not available	2.		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-Aminopropyltriethoxysilane; 98%	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
3-Aminopropyltriethoxysilane; 98%	1,7	3,4	Low

#### 12.4 Mobility in soil

Soil/water partition coefficientNot available.(Koc)Not available.

## 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
3-Aminopropyltriethoxysilane; 98%	No	N/A	No	No	No	N/A	No

## 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.



# 13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

## Product

Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3267	UN3267	UN3267	UN3267
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyltriethoxysilane; 98%)	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (3-Aminopropyltriethoxysilane; 98%)	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (3-Aminopropyltriethoxysilane; 98%)	Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane; 98%)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	No.	No.	No.



14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Additional information	Hazard identification number 80 Limited quantity 1 L Special provisions 274 Tunnel code (E)	Special provisions 274	Emergency schedules F-A, S-B Special provisions 274	Quantity limitation Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0,5 L. Packaging instructions: Y840. Special provisions A3, A803

## 14.7 Transport in bulk according to IMO instruments

Not available.

# 15. Regulatory information

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

## EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Other EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	Not listed



Industrial emissions Not listed (integrated pollution prevention and control) -Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU) Not listed.

Persistent Organic Pollutants Not listed.

<u>Seveso Directive</u> This product is not controlled under the Seveso Directive.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

Inventory list		
China	This material is listed or exempted.	
Canada	This material is listed or exempted.	
Australia	This material is listed or exempted.	
Eurasian Economic Union	Russian Federation inventory: This material is listed or exempted.	
Japan	Japan inventory (CSCL): This material is listed or exempted. Japan inventory (ISHL): This material is listed or exempted.	
New Zealand	This material is listed or exempted.	
Philippines	This material is listed or exempted.	
Republic of Korea	This material is listed or exempted.	
Taiwan	This material is listed or exempted.	
Thailand	This material is listed or exempted.	
Turkey	This material is listed or exempted.	
United States	This material is listed or exempted.	

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Viet Nam

This material is listed or exempted.

15.2 Chemical Safety Assessment Not available.

## 16. Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	ATE = Acute Toxicity Estimate
-	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
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# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classific	ation	Justification
Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317		Expert judgment Expert judgment SKIN CORROSION/IRRITATION Expert judgment
Full text of abbreviated H statements	H317 May cause an	allowed. e skin burns and eye damage. allergic skin reaction. ıs eye damage.
Full text of classifications [CLP/GHS]	Acute Tox. 4, H302 Skin Corr. 1B, H314	ACUTE TOXICITY: ORAL - Category 4 SKIN CORROSION/IRRITATION - Category 1B
Full text of classifications [CLP/GHS]	Acute Tox. 4 Eye Dam. 1	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	Skin Corr. 1B Skin Sens. 1	SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITIZATION - Category 1
Date of issue/ Date of revision	12.12.2024	
Version	0.06	

#### Notice to reader

The above information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.