

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**

FR2-55 SEMI-GLOSS BASE YELLOW AFNOR 2310

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

## 1.1 Product identifier

Product name SDS code : FR2-55 SEMI-GLOSS BASE YELLOW AFNOR 2310 : 55962310B

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

	Identified uses	
🕅 aterborne paint. Professional use Industrial use		
	Uses advised against	
All other uses		
Broduct use	. Waterborne coating for interior use	

**Product use** 

: Waterborne coating for interior use.

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

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex France e-mail address of person : PSRA PAMIERS@akzonobel.com

responsible for this SDS

## 1.4 Emergency telephone number

## National advisory body/Poison Center

Telephone number	: (0551) 19240
<u>Supplier</u>	
Telephone number	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30
Hours of operation	:

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

## 2.2 Label elements

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		FR2-55 SEMI-GLOSS BASE YELLOW AFNOR 2310
<b>SECTION 2: Hazards</b>	ic	lentification
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Avoid release to the environment. Avoid breathing vapor.
Response	:	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	C(M)IT/MIT(3:1)
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	ts
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
2-butoxyethanol trizinc bis(orthophosphate)	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 REACH #: 01-2119485044-40	<1 ≤0.3	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1)	[1] [2]
C(M)IT/MIT(3:1)	EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6 REACH #: 01-2120764691-48	≤0.015	Aquatic Chronic 1, H410 (M=1) Acute Tox. 3, H301 Acute Tox. 2, H310	[1]
Date of issue/Date of revision	: 3-10-2022	Version	: 1.01	1
Date of previous issue	: 30-9-2022	2/19	Akzo	Nobe

SECTION 3: Compo	sition/information on i	ngredients		
	CAS: 55965-84-9 Index: 613-167-00-5		Acute Tox. 2, H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	
ammonia, anhydrous	EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5	<0.1		[1] [2]
1,4-dioxane	EC: 204-661-8 CAS: 123-91-1 Index: 603-024-00-5	<0.1		[1] [2]
ethylene oxide	EC: 200-849-9 CAS: 75-21-8 Index: 603-023-00-X	<0.1	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360Fd STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 (nervous system) See Section 16 for the full text of the H statements declared above.	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## Туре

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

## Eye contact

: 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. Get medical attention if irritation occurs.



SECTION 4: First aid measures		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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.	
Skin contact	: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains C(M)IT/MIT(3:1). May produce an allergic reaction.

## Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

Notes to physician	: Treat symptomatically. C quantities have been inge	Contact poison treatment specialist ested or inhaled.	immediately if large
Specific treatments	: No specific treatment.		
Date of issue/Date of revision	: 3-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	4/19	AkzoNob

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising fi	m the substance or mixture
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective equipment an	d emergency procedures	
For non-emergency personnel	Evacuate surroundi entering. Do not to mist. Provide adeq	aken involving any personal risk or withou ng areas. Keep unnecessary and unprote uch or walk through spilled material. Avoi uate ventilation. Wear appropriate respira appropriate personal protective equipme	ected personnel from d breathing vapor or ator when ventilation is
For emergency responders	information in Section	ng is required to deal with the spillage, tak on 8 on suitable and unsuitable materials. non-emergency personnel".	
6.2 Environmental precautions	drains and sewers. environmental pollu	pilled material and runoff and contact with Inform the relevant authorities if the prod tion (sewers, waterways, soil or air). Wat he environment if released in large quanti	uct has caused er polluting material.
6.3 Methods and materials for	r containment and cle	aning up	
Small spill	up if water-soluble.	risk. Move containers from spill area. Dil Alternatively, or if water-insoluble, absort n an appropriate waste disposal containe osal contractor.	o with an inert dry
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.		
Date of issue/Date of revision	: 3-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	5/19	AkzoNobel

## **SECTION 6: Accidental release measures**

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment.
	See Section 13 for additional waste treatment information.

## **SECTION 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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. 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

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. 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

## **Occupational exposure limits**

Product/ingredie	nt name	Exposure limit values	
2-butoxyethanol		<ul> <li>TRGS 900 OEL (Germany, 3/2020). Absorbed through skin. TWA: 49 mg/m<sup>3</sup> 8 hours. PEAK: 98 mg/m<sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes.</li> <li>DFG MAC-values list (Germany, 7/2019). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m<sup>3</sup> 8 hours. PEAK: 98 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> </ul>	
ammonia, anhydrous		<b>DFG MAC-values list (Germany, 7/2019).</b> PEAK: 28 mg/m³, 4 times per shift, 15 minutes. PEAK: 40 ppm, 4 times per shift, 15 minutes.	
Date of issue/Date of revision	: 3-10-2022	Version :1.01	
Date of previous issue	: 30-9-2022	6/19 AkzoNo	bel

<b>ECTION 8: Exposure contro</b>	ls/personal protection
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	TWA: 14 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	TRGS 900 OEL (Germany, 3/2020).
	TWA: 14 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	PEAK: 28 mg/m <sup>3</sup> 15 minutes.
	PEAK: 40 ppm 15 minutes.
1,4-dioxane	DFG MAC-values list (Germany, 7/2019). Absorbed through
	skin.
	PEAK: 74 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 37 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
	TRGS 900 OEL (Germany, 3/2020). Absorbed through skin.
	PEAK: 146 mg/m <sup>3</sup> 15 minutes.
	PEAK: 40 ppm 15 minutes.
	TWA: 73 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
ethylene oxide	DFG MAC-values list (Germany, 7/2019). Absorbed through
	skin.
Recommended monitoring : If this pro	oduct contains ingredients with exposure limits, personal, workplace
procedures atmosphe	ere or biological monitoring may be required to determine the effectiveness
of the ver	ntilation or other control measures and/or the necessity to use respiratory
protective	e equipment. Reference should be made to monitoring standards, such as
the follow	ving: European Standard EN 689 (Workplace atmospheres - Guidance for
	ssment of exposure by inhalation to chemical agents for comparison with
	es and measurement strategy) European Standard EN 14042 (Workplace
	eres - Guide for the application and use of procedures for the assessment

of exposure to chemical and biological agents) 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.

## **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
		_	bw/day	population	-
	DNEL	Short term Oral	26.7 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	59 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	75 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	89 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	89 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	125 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	147 mg/m <sup>3</sup>	General	Local
		Inhalation	Ũ	population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation	-		
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	-
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
e of issue/Date of revision :	3-10-2022		Version	: 1.01	
e of previous issue :	30-9-2022		7/19		AkzoNob

rizinc bis(orthophosphate)	DNEL	Long term Oral	0.83 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation	°,	population	
	DNEL	Long term	5 mg/m³	Workers	Systemic
		Inhalation	- <b>J</b>		,
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
		5	bw/day	population	,
	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
			bw/day		-,
ammonia, anhydrous	DNEL	Long term	2.8 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term Oral	6.8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	6.8 mg/kg	General	Systemic
	5.122	Long tonn ordi	bw/day	population	e y et e mie
	DNEL	Short term Dermal	6.8 mg/kg	Workers	Systemic
		Chore torn Donnal	bw/day		
	DNEL	Long term Dermal	6.8 mg/kg	Workers	Systemic
		Long tonin Donna	bw/day		
	DNEL	Short term	7.2 mg/m <sup>3</sup>	General	Local
	DINEL	Inhalation	7.2 mg/m	population	Local
	DNEL	Long term	14 mg/m³	Workers	Local
	DINCL	Inhalation	14 mg/m	WOIKEIS	LUCA
	DNEL	Short term	16 mg/m³	Workers	Local
	DNEL	Inhalation	ro mg/m	VIOINEIS	LUCAI
	DNEL	Short term	23.8 mg/m <sup>3</sup>	General	Svotomio
	DNEL	Inhalation	23.0 mg/m		Systemic
	DNEL		23.8 mg/m <sup>3</sup>	population General	Svotomio
	DINEL	Long term Inhalation	23.0 mg/m	population	Systemic
	DNEL	Short term	47.6 mg/m <sup>3</sup>	Workers	Svetomie
	DNEL		47.0 mg/m	WOIKEIS	Systemic
	DNEL	Inhalation	47.6 mg/m <sup>3</sup>	Workers	Svotomio
	DNEL	Long term	47.0 mg/m	WOIKEIS	Systemic
	DNEL	Inhalation Short term Dermal	68 ma/ka	Conoral	Systemia
	DINEL	Short term Demai	68 mg/kg	General population	Systemic
	DNEL	Long torm Dormal	bw/day	General	Systemia
	DNEL	Long term Dermal	68 mg/kg		Systemic
1 4 dioxono		Long term Oral	bw/day	population General	Sustamia
1,4-dioxane	DNEL	Long term Oral	0.24 mg/	-	Systemic
		Long torm Dormal	kg bw/day	population	Sustamia
	DNEL	Long term Dermal	12 mg/kg	General	Systemic
		Long torm	bw/day	population	Sustancia
	DNEL	Long term	18.25 mg/	General	Systemic
		Inhalation	m <sup>3</sup>	population	Customia
	DNEL	Long term Dermal	21 mg/kg	Workers	Systemic
		Ob and tame	bw/day	0	1
	DNEL	Short term	72 mg/m³	General	Local
		Inhalation	70	population	
	DNEL	Long term	73 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	144 mg/m³	Workers	Local
		Inhalation			

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

# Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

## Individual protection measures



# SECTION 8: Exposure controls/personal protection

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: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness $\geq$ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness $\geq$ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Date of previous issue	: 30-9-2022	9/19	AkzoNobel
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рН	: 8		
Odor threshold	: Not available.		
Odor	: Characteristic.		
Color	: Yellow.		
Physical state	: Liquid.		
<u>Appearance</u>			

# **SECTION 9: Physical and chemical properties**

Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 105°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Highest known value: (Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether).
Density	: 1.359 g/cm <sup>3</sup>
Solubility(ies)	: Easily soluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): 4.27 cm <sup>2</sup> /s Kinematic (40°C): 2.01 cm <sup>2</sup> /s

SECTION 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	: The product is stable.		
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	: No specific data.		
10.5 Incompatible materials	: No specific data.		
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LC50 Inhalation Gas.	Mouse	700 ppm	7 hours
-	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	3380 mg/m <sup>3</sup>	7 hours
	LC50 Inhalation Vapor	Rat	2900 mg/m <sup>3</sup>	7 hours
	LD50 Dermal	Guinea pig	230 uL/kg	-
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Mouse	536 mg/kg	-
	LD50 Intraperitoneal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Rat	220 mg/kg	-
	LD50 Intravenous	Mouse	1130 mg/kg	-
	LD50 Intravenous	Rabbit	252 mg/kg	-
te of issue/Date of revision	: 3-10-2022	Version	n :1.01	
te of previous issue	: 30-9-2022	10/19		AkzoNobe

# **SECTION 11: Toxicological information**

	LD50 Intravenous	Rat	307 mg/kg	-
	LD50 Oral	Guinea pig	1200 mg/kg	-
	LD50 Oral	Mouse	1230 mg/kg	-
	LD50 Oral	Mouse	1167 mg/kg	-
	LD50 Oral	Rabbit	300 mg/kg	-
	LD50 Oral	Rabbit	320 mg/kg	-
	LD50 Oral	Rat	917 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
	LD50 Route of exposure	Mouse	1050 mg/kg	-
	unreported			
	LD50 Route of exposure	Rat	917 mg/kg	-
	unreported			
trizinc bis(orthophosphate)	LD50 Intraperitoneal	Mouse	552 mg/kg	-
	LD50 Intraperitoneal	Rat	551 mg/kg	-
ammonia, anhydrous	LC50 Inhalation Gas.	Mouse	4230 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	4500 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	21430 ppm	30 minutes
	LC50 Inhalation Gas.	Rat	9500 ppm	1 hours
	LC50 Inhalation Gas.	Rat	17401 ppm	15 minutes
	LC50 Inhalation Gas.	Rat	2000 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	4600 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rabbit	7 g/m <sup>3</sup>	1 hours
	LC50 Inhalation Vapor	Rat	7040 mg/m <sup>3</sup>	30 minutes
	LC50 Inhalation Vapor	Rat	4673 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	4673 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	18600 mg/m <sup>3</sup>	5 minutes
1,4-dioxane		Mouse	37 g/m <sup>3</sup>	2 hours
1,4-010Xane	LC50 Inhalation Vapor	Rat		2 hours 2 hours
	LC50 Inhalation Vapor		46 g/m <sup>3</sup>	Z nours
	LD50 Dermal	Rabbit	7600 uL/kg	-
	LD50 Intraperitoneal	Mouse	790 mg/kg	-
	LD50 Intraperitoneal	Rat	799 mg/kg	-
	LD50 Oral	Guinea pig	3150 mg/kg	-
	LD50 Oral	Mouse	5300 mg/kg	-
	LD50 Oral	Rabbit	2 g/kg	-
	LD50 Oral	Rat	4200 mg/kg	-
ethylene oxide	LC50 Inhalation Gas.	Mouse	835 ppm	4 hours
	LC50 Inhalation Gas.	Rat	800 ppm	4 hours
	LC50 Inhalation Gas.	Rat	1460 ppm	4 hours
	LC50 Inhalation Vapor	Guinea pig	1500 mg/m <sup>3</sup>	4 hours
	LD50 Intraperitoneal	Mouse	175 mg/kg	-
	LD50 Intravenous	Mouse	290 mg/kg	-
	LD50 Oral	Guinea pig	270 mg/kg	-
	LD50 Oral	Rat	72 mg/kg	-
	LD50 Subcutaneous	Rat	187 mg/kg	-
Conclusion/Summary			3	

**Conclusion/Summary** : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1,4-dioxane	Eyes - Moderate irritant	Guinea pig	-	10 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	515 mg	-
ethylene oxide	Eyes - Moderate irritant	Rabbit	-	6 hours 18	-
				mg	
Conclusion/Summary	: Not available.				
Date of issue/Date of revision	: 3-10-2022	Vers	sion : 1.01		
Date of previous issue	: 30-9-2022	11/1	9		AkzoNobel

# **SECTION 11: Toxicological information**

## Sensitization

**Conclusion/Summary** : Not available.

## <u>Mutagenicity</u>

Product/ingredient name	Test	Experiment	Result
ethylene oxide	-	Subject: Mammalian-Animal	Positive
Conclusion/Summary	: Not available.		
Carcinogenicity			
Conclusion/Summary	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		
Teratogenicity			
Conclusion/Summary	: Not available.		
Specific target organ toxicit	<u>y (single exposure)</u>		
Not available.			
Specific target organ toxicit	<u>y (repeated exposure)</u>		
Not available.			
Aspiration hazard			
Not available.			
Information on the likely	: Not available.		
routes of exposure			
Potential acute health effects			
Eye contact	: No known significant	effects or critical hazards.	
Inhalation	: No known significant	effects or critical hazards.	
Skin contact	: May cause an allergic	skin reaction.	
Ingestion	: No known significant	effects or critical hazards.	
Symptoms related to the physical sectors and the sectors and the sectors and the sectors and the sectors are set of the sectors and the sectors are set of the s	sical chomical and toxi	cological charactoristics	
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	•	ay include the following:	
	irritation	ay molado aro ronowing.	
	redness		
Ingestion	: No specific data.		
Deleved and immediate offers	to and also also also affe		
	is and also chronic effe	cts from short and long term exp	<u>bosure</u>
Short term exposure Potential immediate	: Not available.		
effects			
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	ects		
Not available.			



SECTION 11: Toxicological information			
Conclusion/Summary	: Not available.		
General	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>		
Carcinogenicity	: No known significant effects or critical hazards.		
Mutagenicity	: No known significant effects or critical hazards.		
Reproductive toxicity	: No known significant effects or critical hazards.		
Other information	: Not available.		

# **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1490000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
trizinc bis(orthophosphate)	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ammonia, anhydrous	Acute EC50 29.2 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Acute LC50 2500 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 4980 µg/l Marine water	Crustaceans - Penaeus japonicus - Nauplii	48 hours
	Acute LC50 5210 μg/l Marine water	Crustaceans - Fenneropenaeus penicillatus - Zoea	48 hours
	Acute LC50 2080 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2710 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 0.53 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4180 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4130 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 300 µg/l Fresh water	Fish - Hypophthalmichthys nobilis	96 hours
	Acute LC50 450 µg/l Fresh water	Fish - Oncorhynchus tshawytscha - Underyearling	96 hours
	Acute LC50 380 µg/l Fresh water	Fish - Hypophthalmichthys molitrix - Fingerling	96 hours
	Acute LC50 660 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Acute LC50 440 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Chronic NOEC 550 µg/l Fresh water	Fish - Rutilus rutilus - Embryo	31 days
	Chronic NOEC 0.204 mg/l Marine	Fish - Dicentrarchus labrax	62 days
1,4-dioxane	Acute LC50 1.5 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 10800000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9850000 $\mu$ g/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 12326000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9872000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 6700000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
ethylene oxide	Acute LC50 1000000 $\mu$ g/l Marine water	Crustaceans - Artemia sp.	48 hours
,	Acute LC50 490000 µg/l Marine water	Crustaceans - Artemia sp.	48 hours
ate of issue/Date of revision	: 3-10-2022	Version : 1.01	•
			kzoNobe

# **SECTION 12: Ecological information**

Acute LC50 30000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 137000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 200000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 84000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-butoxyethanol	0.81	-	low
trizinc bis(orthophosphate)	-	60960	high
1,4-dioxane	-0.42	0.3 to 0.7	low
ethylene oxide	-0.3	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Other adverse effects : No known significant effects or critical hazards.

## **SECTION 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

<u>Product</u>		
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.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation	
WC 08 01 12 waste paint and varnish other than those mentioned in 08 01 11		

## Packaging

Date of issue/Date of revision	: 3-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	14/19	AkzoNobel

SECTION 13: Disposal considerations			
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.		
Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>		
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.		

# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	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.

14.7 Transport in bulk: Not applicable.according to IMOinstruments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

## Annex XIV - List of substances subject to authorization

## <u>Annex XIV</u>

None of the components are listed.

## Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles



## **SECTION 15: Regulatory information**

Other EU regulations	
VOC	<ul> <li>The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.</li> </ul>
VOC for Ready-for-Use Mixture	: Not applicable.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substanc	<u>es (1005/2009/EU)</u>
Not listed.	

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## Seveso Directive

This product is not controlled under the Seveso Directive.

## National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

Product/ingredient name	List name	Name on list	Classification	Notes
2-butoxyethanol	DFG MAC-values list	2-Butoxyethanol; Ethylene glycol monobutyl ether	Listed	-
trizinc bis(orthophosphate)	DFG MAC-values list	Zinc and its inorganic compounds (inhalable fraction) / (respirable fraction)	Listed	-
ammonia, anhydrous	DFG MAC-values list	Ammonia	Listed	-
1,4-dioxane	DFG MAC-values list	1,4-Dioxane; Diethylene dioxide	К3	-
ethylene oxide	DFG MAC-values list	Ethylene oxide; Oxirane	K2, M2	-

## Storage class (TRGS 510) : 10

## Hazardous incident ordinance

Hazard class for water	: 3
Technical instruction on air quality control	: TA-Luft Class III - Number 5.2.2: 4.9% TA-Luft Number 5.2.5: 3%
AOX	: The product contains organically bound halogens and can contribute to the AOX value in waste water.

## International regulations

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Date of issue/Date of revision	: 3-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	16/19	AkzoNobel

## **SECTION 15: Regulatory information**

#### Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

#### Inventory list

**Europe** : Not determined.

## **15.2 Chemical Safety** : No Chemical Safety Assessment has been carried out.

#### Assessment

## **SECTION 16: Other information**

Indicates informati	on that has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative</li> </ul>

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

#### Full text of abbreviated H statements

1,1000		Enterna la fluera a la constante		
H220		Extremely flammable gas.		
H221		Flammable gas.		
H225		Highly flammable liquid and vapor.		
H280		Contains gas under pressure; may explode if heat	ied.	
H301		Toxic if swallowed.		
H302		Harmful if swallowed.		
H310		Fatal in contact with skin.		
H312		Harmful in contact with skin.		
H314		Causes severe skin burns and eye damage.		
H315		Causes skin irritation.		
H317		May cause an allergic skin reaction.		
H319		Causes serious eye irritation.		
H330		Fatal if inhaled.		
H331		Toxic if inhaled.		
H332		Harmful if inhaled.		
H335		May cause respiratory irritation.		
H336		May cause drowsiness or dizziness.		
H340		May cause genetic defects.		
H350		May cause cancer.		
H360Fd		May damage fertility. Suspected of damaging the unborn child.		
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.		
H412		Harmful to aquatic life with long lasting effects.		
Date of issue/Date of revision	: 3-10-2022	Version : 1.01		
Date of previous issue	: 30-9-2022	17/19	AkzoNobel	

FR2-55 SEMI-GLOSS BASE YELLOW AFNOR 2310			
SECTION 16: Other information			
EUH019		May form explosive peroxides.	
EUH066		Repeated exposure may cause skin dryness or cracking.	
EUH071		Corrosive to the respiratory tract.	
Full text of classifications	CLP/GHS]	·	
Acute Tox. 2		ACUTE TOXICITY - Category 2	
Acute Tox. 3		ACUTE TOXICITY - Category 3	
Acute Tox. 4		ACUTE TOXICITY - Category 4	
Aquatic Acute 1		AQUATIC HAZARD (ACUTE) - Category 1	
Aquatic Chronic 1		AQUATIC HAZARD (LONG-TERM) - Category 1	
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3	
Carc. 1B		CARCINOGENICITY - Category 1B	
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2	
Flam. Gas 1A		FLAMMABLE GASES - Category 1A	
Flam. Gas 2		FLAMMABLE GASES - Category 2	
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2	
Muta. 1B		GERM CELL MUTAGENICITY - Category 1B	
Press. Gas (Comp.)		GASES UNDER PRESSURE - Compressed gas	
Repr. 1B		TOXIC TO REPRODUCTION - Category 1B	
Skin Corr. 1		SKIN CORROSION/IRRITATION - Category 1	
Skin Corr. 1B		SKIN CORROSION/IRRITATION - Category 1B	
Skin Corr. 1C		SKIN CORROSION/IRRITATION - Category 1C	
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1		SKIN SENSITIZATION - Category 1	
Skin Sens. 1A		SKIN SENSITIZATION - Category 1A	
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
		EXPOSURE) - Category 1	
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
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Notice to reader			

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IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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