AkzoNobel

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 : FR2-55 SEMI-GLOSS BASE YELLOW AFNOR 2310

SDS code : 55962310B

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

Identified uses

Materborne paint. Professional use Industrial use

Uses advised against

All other uses

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 : +33 (0)1 40 05 48 48

Supplier

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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SECTION 2: Hazards identification

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

Supplemental label

elements

C(M)IT/MIT(3:1)Not applicable.

Annex XVII - Restrictions on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and

ons : Not applicable.

articles

Special packaging requirements

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

3.2 Mixtures : Mixture

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

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	CAS: 55965-84-9		Acute Tox. 2, H330	
	Index: 613-167-00-5		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	Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=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	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)	[1] [2]
			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 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.

Type

- [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.

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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. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

5.2 Special hazards arising from the substance or mixture

: None known.

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

: 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.

SECTION 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. Avoid breathing 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). Water polluting material. May be harmful to the environment if released in large quantities.

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.

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SECTION 6: Accidental release measures

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.

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/ingredient name	Exposure limit values
2-butoxyethanol	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 10 ppm 8 hours.
	TWA: 49 mg/m ³ 8 hours.
	STEL: 246 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
ammonia, anhydrous	Ministry of Labor (France, 3/2020). Notes: Binding regulatory
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 14 mg/m ³ 15 minutes. Form: Risk for sensitisation
	STEL: 20 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 7 mg/m ³ 8 hours. Form: Risk for sensitisation
	TWA: 10 ppm 8 hours. Form: Risk for sensitisation
1,4-dioxane	Ministry of Labor (France, 3/2020). Notes: Indicative limit

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SECTION 8: Exposure controls/personal protection

values (circular)

STEL: 140 mg/m³ 15 minutes. Form: Risk for sensitisation STEL: 40 ppm 15 minutes. Form: Risk for sensitisation

Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA: 73 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation

Ministry of Labor (France, 3/2020). Notes: Indicative limit

values (circular)
TWA: 1 ppm 8 hours.
STEL: 5 ppm 15 minutes.

Recommended monitoring procedures

ethylene oxide

: 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 14042 (Workplace atmospheres - 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.

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DNELs/DMELs

Product/ingredient name	Type	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/m³	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	Workers	Systemic
			bw/day		
	DNEL	Short term	147 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³	_	
trizinc bis(orthophosphate)	DNEL	Long term Oral	0.83 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	2.5 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	5 mg/m³	Workers	Systemic
	DAIE!	Inhalation			
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
	DAIE	 	bw/day	population	0
1	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic

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SECTION 8: Exposure controls/personal protection

SECTION 6. Expo.		oroonar proto			
			bw/day		
ammonia, anhydrous	DNEL	Long term	2.8 mg/m ³	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
			bw/day	population	,
	DNEL	Short term Dermal	6.8 mg/kg	Workers	Systemic
			bw/day		,
	DNEL	Long term Dermal	6.8 mg/kg	Workers	Systemic
			bw/day		-,
	DNEL	Short term	7.2 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	14 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	16 mg/m³	Workers	Local
	5,125	Inhalation	. 59,		
	DNEL	Short term	23.8 mg/m ³	General	Systemic
	DITE	Inhalation	20.0 1119/111	population	Cyclonic
	DNEL	Long term	23.8 mg/m ³	General	Systemic
	DIVLE	Inhalation	20.0 1119/111	population	Cysternio
	DNEL	Short term	47.6 mg/m ³	Workers	Systemic
	DIVLE	Inhalation	47.0 mg/m	VVOIRCIS	Oysternic
	DNEL	Long term	47.6 mg/m ³	Workers	Systemic
	DIVLE	Inhalation	47.0 mg/m	WOIKEIS	Oysternic
	DNEL	Short term Dermal	68 mg/kg	General	Systemic
	DIVLE	Chort term Derma	bw/day	population	Oysternic
	DNEL	Long term Dermal	68 mg/kg	General	Systemic
	DINCE	Long term Dermai	bw/day	population	Оузівініс
1,4-dioxane	DNEL	Long term Oral	0.24 mg/	General	Systemic
i, - -dioxaile	DINCL	Long term Oral	kg bw/day	population	Оузівнію
	DNEL	Long term Dermal	12 mg/kg	General	Systemic
	DINCL	Long term Dermai	bw/day	population	Oyalennic
	DNEL	Long term	18.25 mg/	General	Systemic
	DINEL	Inhalation	m ³	population	Oysiellille
	DNEL		21 mg/kg	Workers	Systemic
	DINCL	Long term Dermal	bw/day	AAOIVGIS	Systemic
	DNEL	Short term	72 mg/m ³	General	Local
	DINCL	Inhalation	12 mg/m	population	LUCAI
	DNEL	Long term	72 mg/m³	Workers	Systemic
	DINEL		73 mg/m³	VVOIKEIS	Systemic
	ראבו	Inhalation	111 mg/m3	Morkoro	Local
	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

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.

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SECTION 8: Exposure controls/personal protection

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 ≥ 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 ≥ 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

Appearance

Physical state : Liquid.
Color : Yellow.

Odor : Characteristic.
Odor threshold : Not available.

pH : 8

Melting point/freezing point Initial boiling point and

: Not available.: Not available.

boiling range

Flash point

: Closed cup: 105°C

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SECTION 9: Physical and chemical properties

Evaporation rate : Not available. : Not available. Flammability (solid, gas) Upper/lower flammability or : Not available.

explosive limits

Vapor pressure : Not available.

Vapor density : Highest known value: (Oxirane, 2-methyl-, polymer with oxirane, monobutyl

ether).

Density : 1.359 g/cm³

Solubility(ies) : Easily soluble in the following materials: cold water.

Partition coefficient: n-octanol/: Not available.

water

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

Viscosity Kinematic (room temperature): 4.27 cm²/s

Kinematic (40°C): 2.01 cm²/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

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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 ³	7 hours
	LC50 Inhalation Vapor	Rat	2900 mg/m ³	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	-
	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	-

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SECTION 11: Toxicological information

	1. = =	T=	1	1 -
	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 ³	2 hours
	LC50 Inhalation Vapor	Rabbit	7 g/m³	1 hours
	LC50 Inhalation Vapor	Rat	7040 mg/m ³	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 ³	5 minutes
1,4-dioxane	LC50 Inhalation Vapor	Mouse	37 g/m³	2 hours
	LC50 Inhalation Vapor	Rat	46 g/m³	2 hours
	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 ³	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	-
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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	

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Conclusion/Summary

: Not available.

Sensitization

Conclusion/Summary: Not available.

Mutagenicity

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SECTION 11: Toxicological information

Product/ingredient name	Test	Experiment	Result
ethylene oxide	-	Subject: Mammalian-Animal	Positive

Conclusion/Summary

: Not available.

<u>Carcinogenicity</u>

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.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, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

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.

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SECTION 11: Toxicological information

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 water	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 µg/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 µg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 490000 µg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 300000 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

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SECTION 12: Ecological information

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	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

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.

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
E WC 08 01 12	waste paint and varnish other than those mentioned in 08 01 11

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.

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SECTION 13: Disposal considerations

Disposal considerations

: 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.

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	IATA
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.

user

14.6 Special precautions for : 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 according to IMO instruments

: Not applicable.

SECTION 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 : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC : 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.

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SECTION 15: Regulatory information

VOC for Ready-for-Use

: Not applicable.

Mixture

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

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.

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
1,4-dioxane	France Occupational Exposure Limits	1,4-dioxane	Carc. C2	-
ethylene oxide	France Occupational Exposure Limits	oxyde d'éthylène	Carc. C1B, Muta. M1B	-

Social Security Code, Articles L 461-1 to L 461-7 : 2-butoxyethanol RG 84 1,4-dioxane RG 84 ethylene oxide RG 66

Reinforced medical

: Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable

surveillance

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

Europe : Not determined.

15.2 Chemical Safety

Assessment

: No Chemical Safety Assessment has been carried out.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging 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

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

H220	Extremely flammable gas.
H221	Flammable gas.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
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.
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

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SECTION 16: Other information

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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