

# SAFETY DATA SHEET

F 69 TUK GREY FS26251

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

1.1 Product i	dentifier
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Product name SDS code

: F 69 TUK GREY FS26251 : 21069310K

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

	Identified uses	
Paint. Professional u	ise Industrial use	
	Uses advised against	
All other uses		
Product use	: Two component coating for interior use.	

: Two component 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

1.4 Emergency telephone number

responsible for this SDS

# National advisory body/Poison Center

Telephone number	: +358 (0)9 471977
<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]

Flam. Liq. 3, H226 Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Chronic 2, H411

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.

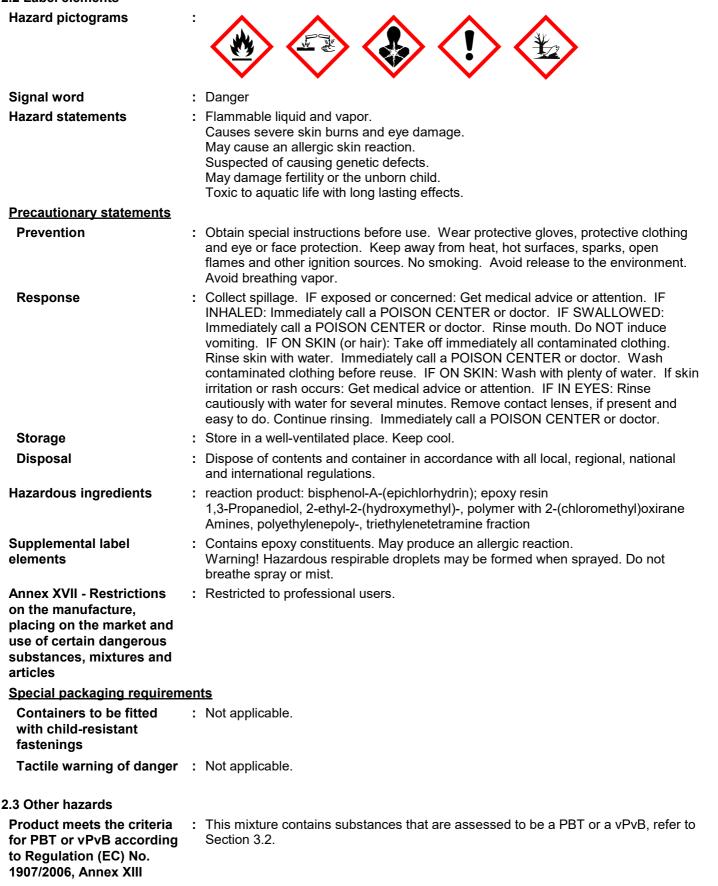
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## SECTION 2: Hazards identification

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

### 2.2 Label elements

Hazard pictograms



# **SECTION 2: Hazards identification**

Other hazards which do : None known.

not result in classification

The mixture may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

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

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
butan-2-ol	REACH #: 01-2119475146-36 EC: 201-158-5 CAS: 78-92-2	≥10 - <20	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
nitroethane	REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3 Index: 609-035-00-1	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332	[1] [2]
1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane	REACH #: 01-2120078341-60 CAS: 30499-70-8	≤10	Skin Corr. 1C, H314 Skin Sens. 1B, H317 Muta. 2, H341 (oral) Repr. 1B, H360 (oral) Aquatic Chronic 2, H411	[1]
Terphenyl, hydrogenated	REACH #: 01-2119488183-33 EC: 262-967-7 CAS: 61788-32-7	≤3	Aquatic Chronic 2, H411	[1] [2] [4
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	EC: 292-588-2 CAS: 90640-67-8	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	REACH #: 01-2119513212-58 EC: 219-784-2 CAS: 2530-83-8	≤3	Eye Dam. 1, H318	[1]
propylidynetrimethanol	EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier 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. <u>Type</u>

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

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

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

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

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### **SECTION 4: First aid measures**

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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane, Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.

### Over-exposure signs/symptoms

Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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

Hazards from the<br/>substance or mixture: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br/>In a fire or if heated, a pressure increase will occur and the container may burst, with<br/>the risk of a subsequent explosion. This material is toxic to aquatic life with long<br/>lasting effects. Fire water contaminated with this material must be contained and<br/>prevented from being discharged to any waterway, sewer or drain.

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Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials for	containment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.



# **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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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 a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

### Seveso Directive - Reporting thresholds

### Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

### 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



# SECTION 8: Exposure controls/personal protection

butan-2-ol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m <sup>3</sup> 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 230 mg/m <sup>3</sup> 15 minutes.
nitroethane	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 12/2019). Absorbed through skin.
	STEL: 312 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 62 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
Terphenyl, hydrogenated	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 12/2019).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
	STEL: 30 mg/m <sup>3</sup> 15 minutes.
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 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.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
butan-2-ol	DNEL	Long term Oral	15 mg/kg	General	Systemic
		_	bw/day	population	
	DNEL	Long term	52 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	203 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Inhalation	212 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	405 mg/kg bw/day	Workers	Systemic
reaction product: bisphenol-A-	DNEL	Short term	0.75 mg/	General	Systemic
(epichlorhydrin); epoxy resin		Inhalation	kg bw/day	population	,
(number average molecular weight				[Consumers]	
≤ 700)	DNEL	Long term	0.75 mg/m <sup>3</sup>	General	Systemic
		Inhalation	<u>-</u>	population	- ,
				[Consumers]	
	DNEL	Short term Oral	0.75 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Long term Oral	0.75 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Short term Dermal	3.571 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.571 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Dermal	8.33 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	8.33 mg/	Workers	Systemic
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			kg bw/day		
	DNEL	Short term	12.25 mg/	Workers	Systemic
	DNEL	Inhalation Long term	m³ 12.25 mg/	Workers	Systemic
		Inhalation	m³ Ö		,
nitroethane	DNEL	Long term	2 mg/m³	General	Systemic
		Inhalation	$E m \sigma/m^3$	population	
	DNEL	Long term Inhalation	5 mg/m³	General population	Local
	DNEL	Short term	5 mg/m³	General	Systemic
		Inhalation	-	population	-,
	DNEL	Long term	8.4 mg/m³	Workers	Systemic
	DNEL	Inhalation	$15 \text{ mg/m}^3$	Conoral	
	DNEL	Short term Inhalation	15 mg/m³	General population	Local
	DNEL	Short term	17 mg/m³	Workers	Systemic
		Inhalation	-		- <b>,</b>
	DNEL	Long term	25 mg/m³	Workers	Local
		Inhalation	50	147	
	DNEL	Short term Inhalation	50 mg/m³	Workers	Local
	DNEL	Long term Dermal	210 mg/kg	General	Systemic
			bw/day	population	-,
	DNEL	Long term Dermal	350 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	1250 mg/	General	Systemic
		Chartterne Dermal	kg bw/day	population	Curatanaia
	DNEL	Short term Dermal	2100 mg/ kg bw/day	Workers	Systemic
Terphenyl, hydrogenated	DNEL	Long term Inhalation	2.01 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.622 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	0.358 mg/	General	Systemic
		Inhalation	m³ Ö	population	5
				[Consumers]	
	DNEL	Long term Dermal	0.222 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.074 mg/	General	Systemic
			kg bw/day	population	Cystonio
				[Consumers]	
	DNEL	Long term Oral	0.3 mg/kg	General	Systemic
	DNEL	Long torm	bw/day	population General	Systemia
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	8.38 mg/m <sup>3</sup>		Systemic
		Inhalation	_		
	DNEL	Long term	25 mg/m³	General	Local
		Inhalation	27.9 mal	population	Sustamia
	DNEL	Long term Dermal	27.8 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	46.3 mg/	Workers	Systemic
		-	kg bw/day		
	DNEL	Long term	83.8 mg/m <sup>3</sup>	Workers	Local
zinc oxide	DNEL	Inhalation Long term	0.5 mg/m³	Workers	Local
	DINEL	Inhalation	0.5 mg/m <sup>-</sup>	VUINEIS	LUCAI
	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
	1	Inhalation	1	population	
	DNEL	Long term	5 mg/m³	Workers	Systemic

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mal 83 mg/kg bw/day	General population	Systemic
mal 83 mǵ/kg bw/day	Workers	Systemic
mal 0.25 mg/	General population	Systemic
	General	Systemic
l 0.41 mg/ kg bw/day	General	Systemic
mal 0.57 mg/ kg bw/day	Workers	Systemic
	Workers	Systemic
mal 8 mg/kg bw/day	General population	Systemic
l 20 mg/kg bw/day	General population	Systemic
1600 mg/ m <sup>3</sup>	General population	Systemic
5380 mg/ m <sup>3</sup>	Workers	Systemic
l 12.5 mg/	General population	Systemic
mal 12.5 mg/	General population	Systemic
	Workers	Systemic
	Workers	Systemic
l 1.68 mg/ kg bw/day	General population	Systemic
mal 1.68 mg/	General population	Systemic
	Workers	Systemic
	General population	Systemic
19.54 mg/ m³	Workers	Systemic
ll 50 mg/kg bw/day	General population	Systemic
mal 83.3 mg/	General population	Systemic
	Workers	Systemic
925 mg/m <sup>3</sup>	General population	Systemic
U U	Workers	Systemic
	_	population 3037.3 mg/ Workers

### PNECs



Product/ingredient name	Compartment Detail	Value	Method Detail	
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Fresh water	3 µg/l	-	
	Marine water	0.3 µg/l	-	
	Sewage Treatment Plant	10 mg/l	-	
	Fresh water sediment	0.5 mg/kg dwt	-	
	Marine water sediment	0.5 mg/kg dwt	-	
	Sediment	0.05 mg/kg dwt	-	
Terphenyl, hydrogenated	Fresh water	2 µg/l	Assessment Factors	
	Marine water	0.2 µg/l	Assessment Factors	
	Sewage Treatment Plant	10.3 mg/l	Assessment Factors	
	Fresh water sediment	63.2 mg/kg dwt	Equilibrium Partitioning	
	Marine water sediment	6.32 mg/kg dwt	Equilibrium Partitioning	
	Soil	12.6 mg/kg dwt	Equilibrium Partitioning	
	Secondary Poisoning	2.22 mg/kg	Assessment Factors	

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

### 8.2 Exposure controls

Appropriate engineering controls Individual protection meas	ventilation or other engir contaminants below any controls also need to kee explosive limits. Use ex	ventilation. Use process enclosures eering controls to keep worker exp recommended or statutory limits. ep gas, vapor or dust concentration plosion-proof ventilation equipment	osure to airborne The engineering s below any lower
Hygiene measures	: Wash hands, forearms a before eating, smoking a Appropriate techniques Contaminated work cloth contaminated clothing be	and face thoroughly after handling of and using the lavatory and at the en- should be used to remove potentiall ning should not be allowed out of the efore reusing. Ensure that eyewash	d of the working period. ly contaminated clothing. e workplace. Wash
Eye/face protection	assessment indicates th gases or dusts. If conta unless the assessment i	ng with an approved standard shoul is is necessary to avoid exposure to ct is possible, the following protection indicates a higher degree of protect Id. If inhalation hazards exist, a ful	b liquid splashes, mists, on should be worn, ion: chemical splash
Skin protection			
Hand protection	be worn at all times whe this is necessary. Consi check during use that the should be noted that the different for different glo	ervious gloves complying with an ap in handling chemical products if a ris dering the parameters specified by e gloves are still retaining their prote time to breakthrough for any glove /e manufacturers. In the case of m protection time of the gloves canno	sk assessment indicates the glove manufacturer, ective properties. It material may be ixtures, consisting of
	protection class of 6 (bre recommended. Recomm When only brief contact (breakthrough time >30 Recommended gloves: I	uently repeated contact may occur, eakthrough time >480 minutes acco nended gloves: Viton $\circledast$ or Nitrile, th is expected, a glove with protection minutes according to EN374) is rec Nitrile, thickness $\ge$ 0.12 mm. ed regularly and if there is any sign	rding to EN374) is nickness ≥ 0.38 mm. class of 2 or higher ommended.
	The performance or effe chemical damage and p	ctiveness of the glove may be redu por maintenance.	ced by physical/
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# **SECTION 8: Exposure controls/personal protection**

		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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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

Annooronoo

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Gray.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 25°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: 7.95 (Air = 1) (Terphenyl, hydrogenated). Weighted average: 2.87 (Air = 1)
Density	: 1.384 g/cm <sup>3</sup>
Solubility(ies)	: Insoluble 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): 3.97 cm²/s Kinematic (40°C): 1.01 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	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.		
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials		
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
butan-2-ol	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	48500 mg/m <sup>3</sup>	4 hours
	LD50 Intraperitoneal	Guinea pig	1067 mg/kg	-
	LD50 Intraperitoneal	Mouse	771 mg/kg	-
	LD50 Intraperitoneal	Rabbit	277 mg/kg	-
	LD50 Intraperitoneal	Rat	1193 mg/kg	-
	LD50 Intravenous	Mouse	764 mg/kg	-
	LD50 Intravenous	Rat	138 mg/kg	-
	LD50 Oral	Rabbit	4893 mg/kg	-
	LD50 Oral	Rabbit	4890 mg/kg	-
	LD50 Oral	Rat	2193 mg/kg	-
	LD50 Oral	Rat	2054 mg/kg	-
nitroethane	LD50 Intraperitoneal	Mouse	310 mg/kg	-
	LD50 Oral	Mouse	860 mg/kg	-
	LD50 Oral	Rat	1100 mg/kg	-
Terphenyl, hydrogenated	LD50 Oral	Mouse	12500 mg/kg	-
	LD50 Oral	Rat	17500 mg/kg	-
	LD50 Oral	Rat	>24000 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-
zinc oxide	LD50 Intraperitoneal	Rat	240 mg/kg	-
	LD50 Oral	Mouse	7950 mg/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LD50 Dermal	Rabbit	3970 uĽ/kg	-
	LD50 Oral	Rat	7.01 g/kg	-
	LD50 Oral	Rat	22600 uL/kg	-
propylidynetrimethanol	LD50 Oral	Mouse	13700 mg/kg	-
	LD50 Oral	Mouse	14000 mg/kg	-
	LD50 Oral	Rat	14100 mg/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

# Conclusion/Summary



SECTION 11: Toxicological information					
Product/ingredient name	Result	Species	Score	Exposure	Observation
butan-2-ol reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Eyes - Severe irritant Eyes - Mild irritant	Rabbit Rabbit	-	0.1 MI 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary <u>Sensitization</u>	: Not available.				
Conclusion/Summary Mutagenicity	: Not available.				
Conclusion/Summary Carcinogenicity	: Not available.				
Conclusion/Summary <u>Reproductive toxicity</u>	: Not available.				
Conclusion/Summary Teratogenicity	: Not available.				
Conclusion/Summary	: Not available.				
Specific target organ toxicity	y (single exposure)				

Product/ingredient name	Category	Route of exposure	Target organs
butan-2-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

#### Information on the likely : Not available. routes of exposure

### Potential acute health effects

: Causes serious eye damage.
: No known significant effects or critical hazards.
: Causes severe burns. May cause an allergic skin reaction.
: No known significant effects or critical hazards.

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

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Date of previous issue	: 19-10-2022	14/21	AkzoNobel

# **SECTION 11: Toxicological information**

	•
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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

Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effe	<u>S</u>	
Not available.		
Conclusion/Summary	Not available.	
General	Once sensitized, a severe allergic reaction may occur when subsequently expose to very low levels.	ed
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	Suspected of causing genetic defects.	
Reproductive toxicity	May damage fertility or the unborn child.	

#### 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
butan-2-ol	Acute EC50 4227 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3670000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
zinc oxide	Acute EC50 1 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 0.622 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.25 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2246000 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 3.969 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
	Acute LC50 2.525 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	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
butan-2-ol	0.61	-	low
reaction product: bisphenol-	2.64 to 3.78	31	low
A-(epichlorhydrin); epoxy			
resin			
nitroethane	0.18	-	low
Terphenyl, hydrogenated	-	5200	high
zinc oxide	-	28960	high
Amines, polyethylenepoly-,	-2.65	-	low
triethylenetetramine fraction			
propylidynetrimethanol	-0.47	<1	low

### 12.4 Mobility in soil

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

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
butan-2-ol	No	N/A	N/A	No	N/A	N/A	N/A
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	No	N/A	No	No	No	N/A	No
nitroethane	No	N/A	N/A	No	N/A	N/A	N/A
Terphenyl, hydrogenated	No	N/A	Yes	No	SVHC (Candidate)	Specified	Specified
Amines, polyethylenepoly-, triethylenetetramine fraction	No	N/A	N/A	No	N/A	N/A	N/A
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<b>SECTION 12: Ecologi</b>	ical inforr	nation					
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	No	N/A	N/A	No	N/A	N/A	N/A
propylidynetrimethanol	No	N/A	No	Yes	No	N/A	No

**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
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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.
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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	UN3469	UN3469	UN3469	
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	
14.3 Transport hazard class(es)			3 (8)	
14.4 Packing group	111	111	111	
14.5 Environmental hazards	Yes.	Marine Pollutant(s): reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	Yes. The environmentally hazardous substance mark is not required.	
Additional informa ADR/RID			not required when transported in	
IMDG IATA	MDG : <u>Emergency schedules</u> F-E, S-C The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg			
<b>14.6 Special precautions for : Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do i the event of an accident or spillage.				
14.7 Transport in be according to IMO instruments	ulk : 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

Ingredient name		Intrinsic property	Status	Reference number	Date of revision
Terphenyl, hydrogenated		vPvB	Candidate	ED/61/2018	6/27/2018
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain	: Restricted to p	rofessional users.			
dangerous substances, mixtures and articles					
dangerous substances,	: 1-11-2022		Version : 2.01		kzoNobe

# **SECTION 15: Regulatory information**

		-
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.
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 substance	es	<u>(1005/2009/EU)</u>
Not listed.		
Prior Informed Consent (PIC) (649/2012/EU)		

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category	
P5c E2	
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 app to the use of this product at work.
NACE	: Not available.
UC62	: Not available.
nternational regulations	<u>S</u>
Chemical Weapon Conv	vention List Schedules I, II & III Chemicals
Not listed.	
<u>Iontreal Protocol</u>	
Not listed.	
Stockholm Convention	on Persistent Organic Pollutants
Rotterdam Convention of Not listed.	on Prior Informed Consent (PIC)
JNECE Aarhus Protoco	I on POPs and Heavy Metals
Not listed.	
nventory list	
Europe	: Not determined.
5.2 Chemical Safety	: No Chemical Safety Assessment has been carried out.

# **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 [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
Flam. Liq. 3, H226	On basis of test data
Skin Corr. 1C, H314	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Repr. 1B, H360	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2	
Repr. 1B		TOXIC TO REPRODUCTION - Category 1B	
		TOXIC TO REPRODUCTION - Category 2 SKIN CORROSION/IRRITATION - Category 1B	
Skin Corr. 1C SKIN CORROSION/IRRITATION - Cate		SKIN CORROSION/IRRITATION - Category 1C	
Skin Irrit. 2 Skin Sens. 1		SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1	
Skin Sens. 1B	n Sens. 1B SKIN SENSITIZATION - Category 1B		
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -	
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	Category 3		
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Unique ID	:		

### Notice to reader

FOR PROFESSIONAL USE ONLY

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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