

# **SAFETY DATA SHEET**

F 69 TUK RED RAL 3000

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

TUK RED RAL 3000

1.1	Product	identifier
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Product name	: F 69 TUK R
SDS code	: 21069400K

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

Identified uses		
Paint. Professional use Industrial use		
Uses advised against		
All other uses		
Product 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 responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center		
Telephone number	: +358 (0)9 471977	
<u>Supplier</u>		
Telephone number	· +33 (0)5 34 01 34	

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]

Mam. 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**

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

#### 2.2 Label elements Hazard pictograms Signal word : Danger : Mammable liquid and vapor. Hazard statements Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects. **Precautionary statements** Prevention : Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF Response INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. : Store in a well-ventilated place. Keep cool. Storage Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. : reaction product: bisphenol-A-(epichlorhydrin); epoxy resin Hazardous ingredients 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane Amines, polyethylenepoly-, triethylenetetramine fraction Supplemental label : Contains epoxy constituents. May produce an allergic reaction. elements Annex XVII - Restrictions : Restricted to professional users. on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture contains substances that are assessed to be a PBT or a vPvB, refer to for PBT or vPvB according Section 3.2. to Regulation (EC) No. 1907/2006, Annex XIII Date of issue/Date of revision : 6-10-2022 Version : 2

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# **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**

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
b∕utan-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	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]
lead compounds	EC: 215-267-0 CAS: 1317-36-8 Index: 082-001-00-6	<0.1	Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
cadmium oxide (non-pyrophoric)	EC: 215-146-2 CAS: 1306-19-0 Index: 048-002-00-0	<0.1	Acute Tox. 2, H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361fd STOT RE 1, H372	[1] [2] [5
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# SECTION 3: Composition/information on ingredients Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=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>

- [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	: Set 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	: Set 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	: Cet 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	: Set 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.



# SECTION 4: First aid measures

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 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	<ul> <li>Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
4.3 Indication of any imm	ediate 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.

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# **SECTION 5: Firefighting measures**

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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 f	the substance or mixture	
Hazards from the substance or mixture	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, w the risk of a subsequent explosion. This material is toxic 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 nitrogen oxides sulfur 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 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 fo chemical incidents.	
<b>SECTION 6: Accider</b>	release measures	
6.1 Personal precautions, protective equipment and emergency procedures		

of the croonal precoutions, pre	Accure 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 fo	r 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. Date of issue/Date of revision : 6-10-2022 Version : 2 **AkzoNobel** 

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## SECTION 6: Accidental release measures

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	: Fut 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

Category	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	

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

required.

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	
øutan-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.
lead monoxide	EU OEL (Europe, 10/2019). Notes: list of binding occupational exposure limit values TWA: 0.15 mg/m <sup>3</sup> 8 hours.
cadmium oxide	Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). Absorbed through skin. TWA: 0.02 mg/m³, (calculated as Cd) 8 hours.
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

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
butan-2-ol	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	52 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	203 mg/kg bw/day	General population	Systemic
	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- (epichlorhydrin); epoxy resin (number average molecular weig ≤ 700)	DNEL ht	Short term Inhalation	0.75 mg/ kg bw/day	General population [Consumers]	Systemic
,	DNEL	Long term Inhalation	0.75 mg/m <sup>3</sup>	General population	Systemic
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<b>SECTION 8: Exposure</b>	controls/p	ersonal prote			
•		•		[Consumers]	
	DNEL	Short term Oral	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.75 mg/	General	Systemic
	DNEL	Short term Dermal	kg bw/day 3.571 mg/	population General	Systemic
	DNEL	Long term Dermal	kg bw/day 3.571 mg/	population General	Systemic
	DNEL	Short term Dermal	kg bw/day 8.33 mg/	population Workers	Systemic
	DNEL	Long term Dermal	kg bw/day 8.33 mg/	Workers	Systemic
	DNEL	Short term	kg bw/day 12.25 mg/	Workers	Systemic
	DNEL	Inhalation Long term	m³ 12.25 mg/	Workers	Systemic
nitroethane	DNEL	Inhalation Long term	m³ 2 mg/m³	General	Systemic
	DNEL	Inhalation Long term	5 mg/m³	population General	Local
	DNEL	Inhalation Short term	5 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	8.4 mg/m <sup>3</sup>	population Workers	Systemic
	DNEL	Inhalation Short term	15 mg/m³	General	Local
	DNEL	Inhalation Short term	0 17 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term	25 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	50 mg/m³	Workers	Local
	DNEL	Inhalation Long term Dermal	210 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 350 mg/kg	population Workers	Systemic
	DNEL	Short term Dermal	bw/day 1250 mg/	General	Systemic
	DNEL	Short term Dermal	kg bw/day 2100 mg/	population Workers	Systemic
Terphenyl, hydrogenated	DNEL	Long term Inhalation	kg bw/day 2.01 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.622 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.358 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.222 mg/ kg bw/day	[Consumers] Workers	Systemic
	DNEL	Long term Oral	kg bw/day 0.074 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.3 mg/kg	[Consumers] General	Systemic
	DNEL	Long term Inhalation	bw/day 2.5 mg/m³	population General	Systemic
	DNEL	Long term Inhalation	8.38 mg/m <sup>3</sup>	population Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m³	General population	Local
	DNEL	Long term Dermal	27.8 mg/	General	Systemic
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	1	kg bw/day	population	
	Long term Dermal	•		Systemic
DINCL	Long term Derma		WOIKEIS	Oysternic
	Long torm		Workors	Local
DINEL		03.0 mg/m	WUIKEIS	LUCAI
		$0.5 \text{ mg/m}^3$	Workoro	
DINEL		0.5 mg/m	WUIKEIS	Local
		0.92 mg/	Conorol	Sustamia
DINEL	Long term Orai			Systemic
	Long torm			Svetemie
DINEL		2.5 mg/m-		Systemic
				Curtania
DNEL	5	5 mg/m°	vvorkers	Systemic
		0.0	Conorral	Queterrit
DNEL	Long term Dermal			Systemic
				Question
DNEL	Long term Dermal		vvorkers	Systemic
			Conorral	Overte mile
DNEL	Long term Dermal			Systemic
	Long town-	kg bw/day		Overte
DNEL	-	0.29 mg/m <sup>3</sup>		Systemic
		0.44		Questa
DNEL	Long term Oral			Systemic
				<b>•</b> • •
DNEL	Long term Dermal		Workers	Systemic
DNEL	Long term	1 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation	Ū		
DNEL	Short term Dermal	8 mg/kg	General	Systemic
		bw/day	population	-
DNEL	Short term Oral	20 mg/kg	General	Systemic
		bw/day	population	-
DNEL	Short term	1600 mg/	General	Systemic
	Inhalation	m³ Ö	population	-
DNEL	Short term	5380 mg/	Workers	Systemic
	Inhalation	m³		
DNEL	Long term Oral	12.5 mg/	General	Systemic
		kg bw/day	population	
DNEL	Long term Dermal	12.5 mg/	General	Systemic
		kg bw/day	population	
DNEL	Long term Dermal	21 mg/kg bw/day	Workers	Systemic
DNEL	Long term	147 mg/m <sup>3</sup>	Workers	Systemic
		1.49/100	Conorel	Suptomia
DNEL	Long term Oral			Systemic
DNEL	Long town-			
	Long term	4 µg/m³	Workers	Local
DILL	Inhalation	1.3		
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term OralDNELLong term OralDNELLong term DermalDNELLong term OralDNELLong term DermalDNELLong term OralDNELShort term DermalDNELShort term OralDNELShort term OralDNELShort term OralDNELLong term Oral	NELLong term Inhalationkg bw/day 83.8 mg/m³DNELLong term Inhalation0.5 mg/m³DNELLong term Oral0.83 mg/ kg bw/dayDNELLong term Oral0.83 mg/ kg bw/dayDNELLong term Oral0.83 mg/ kg bw/dayDNELLong term Inhalation5 mg/m³DNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal83 mg/kg bw/dayDNELLong term Dermal0.25 mg/ kg bw/dayDNELLong term Dermal0.25 mg/ kg bw/dayDNELLong term Dermal0.29 mg/m³Inhalation0.41 mg/ kg bw/dayDNELLong term Dermal0.57 mg/ kg bw/dayDNELLong term Dermal0.57 mg/ kg bw/dayDNELLong term Dermal8 mg/kg bw/dayDNELShort term Dermal8 mg/kg bw/dayDNELShort term Oral20 mg/kg bw/dayDNELShort term5380 mg/ m³DNELShort term5380 mg/ kg bw/dayDNELLong term Dermal12.5 mg/ kg bw/dayDNELLong term Dermal21 mg/kg bw/dayDNELLong term Dermal147 mg/m³DNELLong term Oral1 µg/kg bw/day	DNELLong term Dermal46.3 mg/ kg bw/dayWorkersDNELLong term83.8 mg/m³WorkersDNELLong term0.5 mg/m³WorkersDNELLong term Oral0.83 mg/ kg bw/dayGeneral populationDNELLong term2.5 mg/m³General populationDNELLong term5 mg/m³WorkersDNELLong term5 mg/m³WorkersDNELLong term Dermal83 mg/kg bw/dayGeneral populationDNELLong term Dermal83 mg/kg bw/dayGeneral populationDNELLong term Dermal0.25 mg/ kg bw/dayGeneral populationDNELLong term Dermal0.25 mg/ kg bw/dayGeneral populationDNELLong term Oral0.41 mg/ kg bw/dayGeneral populationDNELLong term Oral0.41 mg/ kg bw/dayGeneral populationDNELLong term Dermal8 mg/kg bw/dayGeneral populationDNELLong term Dermal8 mg/kg bw/dayGeneral populationDNELShort term Oral20 mg/kg bw/dayGeneral populationDNELShort term Oral12.5 mg/ kg bw/dayGeneral populationDNELLong term Oral12.5 mg/ kg bw/dayGeneral populationDNELLong term Dermal12.5 mg/ populationGeneral populationDNELLong term Dermal12.5 mg/ populationGeneral populationDNELLong term Dermal147 mg/m³<

# PNECs

Product/ingredier	nt name	Compartment Detail	Value	Method Detail
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)		Fresh water	3 µg/l	-
5 5	/	Marine water	0.3 µg/l	-
		Sewage Treatment	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
e of issue/Date of revision	: 6-10-2022	1	Version : 2	1
te of previous issue	: 2-10-2022		10/22	AkzoNob

		F 69 TUK RED RAL 3000	·		
<b>SECTION 8: Exposu</b>	re control	s/personal protection	on		
		Sewage Treatment Plant	10.3 mg/l	Assessment Factors	
		Fresh water sediment Marine water sediment Soil Secondary Poisoning	63.2 mg/kg dwt 6.32 mg/kg dwt 12.6 mg/kg dwt 2.22 mg/kg	Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Assessment Factors	
8.2 Exposure controls					
Appropriate engineering controls	ventilatio contamir controls	with adequate ventilation. Us n or other engineering control ants below any recommender also need to keep gas, vapor e limits. Use explosion-proof v	s to keep worker e d or statutory limits or dust concentration	xposure to airborne .  The engineering ons below any lower	
Individual protection meas	ures				
Hygiene measures	before ea Appropria Contamii contamir	nds, forearms and face thorou ating, smoking and using the l ate techniques should be used nated work clothing should no nated clothing before reusing. are close to the workstation lo	avatory and at the d to remove potenti t be allowed out of Ensure that eyewa	end of the working period. ially contaminated clothing. the workplace. Wash	
Eye/face protection	assessm gases or unless th goggles	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.			
Skin protection					
Hand protection	be worn a this is ne check du should be different	I-resistant, impervious gloves at all times when handling che cessary. Considering the par iring use that the gloves are si e noted that the time to breakt for different glove manufactur ubstances, the protection time d.	emical products if a ameters specified I till retaining their pr through for any glov rers. In the case of	risk assessment indicates by the glove manufacturer, otective properties. It ve material may be mixtures, consisting of	
	protectio recomme When or (breakthr Recomm	olonged or frequently repeated n class of 6 (breakthrough tim ended. Recommended gloves ly brief contact is expected, a rough time >30 minutes accor- lended gloves: Nitrile, thicknes hould be replaced regularly ar	e >480 minutes ac s: Viton ® or Nitrile, glove with protecti ding to EN374) is r ss ≥ 0.12 mm.	cording to EN374) is , thickness ≥ 0.38 mm. on class of 2 or higher ecommended.	
	chemical The user product i	ormance or effectiveness of the damage and poor maintenant must check that the final cho s the most appropriate and taken ncluded in the user's risk asse	ice. ice of type of glove kes into account th	selected for handling this	
Body protection	being pe before ha wear ant discharge Europea	protective equipment for the rformed and the risks involved andling this product. When th i-static protective clothing. Fo es, clothing should include an n Standard EN 1149 for furthe ents and test methods.	d and should be ap ere is a risk of ignit or the greatest prote ti-static overalls, bo	proved by a specialist ion from static electricity, ection from static pots and gloves. Refer to	



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

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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Red.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	: Not available.
boiling range	
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: 2.81 (Air = 1)
Density	: 1.353 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): 4.07 cm <sup>2</sup> /s Kinematic (40°C): 1.01 cm <sup>2</sup> /s

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	: The product is stable.		
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	: 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.		
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# **SECTION 10: Stability and reactivity**

10.5 Incompatible materials	: Reactive or incompatible with the following materials:	
	oxidizing materials	

10.6 Hazardous	: Under normal conditions of storage and use, hazardous decomposition products	
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 uL/kg	-
,	LD50 Oral	Rat	7.01 g/kg	-
	LD50 Oral	Rat	22600 uL/kg	-
lead compounds	LD50 Intraperitoneal	Mouse	217 mg/kg	-
cadmium oxide (non- pyrophoric)	LC50 Inhalation Vapor	Guinea pig	3500 mg/m <sup>3</sup>	10 minutes
	LC50 Inhalation Vapor	Mouse	250 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rabbit	2500 mg/m <sup>3</sup>	10 minutes
	LC50 Inhalation Vapor	Rat	45 mg/m <sup>3</sup>	1 hours
	LD50 Intraperitoneal	Rat	12 mg/kg	-
	LD50 Intravenous	Rat	25 mg/kg	-
	LD50 Oral	Mouse	67 mg/kg	-
	LD50 Oral	Rat	72 mg/kg	-
	LD50 Subcutaneous	Mouse	94 mg/kg	-
			5 · ···9///9	

**Conclusion/Summary** : Not available.

## Irritation/Corrosion



# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
butan-2-ol	Eyes - Severe irritant	Rabbit	-	0.1 MI	-
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Eyes - Mild irritant	Rabbit	-	100 mg	-
5	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 mg	-
	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	-
lead compounds	Skin - Mild irritant	Rabbit	-	24 hours 100 mg	-

#### Conclusion/Summary Sensitization

<b>Conclusion/Summary</b>	: Not available.
---------------------------	------------------

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
cadmium oxide (non- pyrophoric)	-	Subject: Mammalian-Animal	Positive
Conclusion/Summary	: Not available.		
<b>Carcinogenicity</b>			
Conclusion/Summary	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		
Teratogenicity			
Conclusion/Summary	: Not available.		
Specific target organ toxicit	v (single exposure)		

#### Specific target organ toxicity (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.

# Potential acute health effects

Eye contact	: 🖉auses serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: 🖉 auses severe burns. May cause an allergic skin reaction.

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# **SECTION 11: Toxicological information**

Ingestion	: No known significant effects or critical hazards.
Symptoms related to	the physical, chemical and toxicological characteristics
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	: Koverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths</li> </ul>

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

skeletal malformations

Delayea ana ininicalate ener	to and also entende encets nom 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 eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: 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.

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Date of previous issue	: 2-10-2022	15/22	AkzoNobel

# **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposu
outan-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
lead monoxide	Acute LC50 388000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 132 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3486000 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 298 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 3562000 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 3841000 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 3963000 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
cadmium oxide	Acute LC50 3280 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 0.0054 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 9350 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 177 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 7029 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 9920 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 10470 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours

# 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential



SECTION 12: E	cological information
---------------	-----------------------

Product/ingredient name	LogPow	BCF	Potential		
<b>p</b> utan-2-ol	0.61	-	low		
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low		
nitroethane	0.18	-	low		
Terphenyl, hydrogenated	-	5200	high		
zinc oxide	-	28960	high		
Amines, polyethylenepoly-, triethylenetetramine fraction	-2.65	-	low		
cadmium oxide	-	1345	high		

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
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	No	N/A	N/A	No	N/A	N/A	N/A

**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:

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# SECTION 13: Disposal considerations

I		
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	IATA
14.1 UN number	<b>V</b> N3469	<b>Ø</b> N3469	<mark>₩</mark> N3469
14.2 UN proper shipping name	AINT, FLAMMABLE, CORROSIVE	AINT, FLAMMABLE, CORROSIVE	AINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)			<b>3</b> (8)
14.4 Packing group		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 information** 

ADR/RID	<ul> <li>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> <li>Tunnel code (D/E)</li> </ul>
IMDG	: <b>Emergency schedules</b> F-E, S-C <b>P</b> he marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precautions for user	: <b>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 in

the event of an accident or spillage.

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# SECTION 14: Transport information

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

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
cadmium oxide	Carcinogen	Candidate	ED/69/2013	6/20/2013
-	Substance of	Candidate	ED/69/2013	6/20/2013
	equivalent concern fo	r		
	human health			
lead monoxide	Toxic to reproduction	Recommended	ED/49/2014	11/10/2016
Terphenyl, hydrogenated	vPvB	Candidate	ED/61/2018	6/27/2018

#### 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.
- 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 controlled under the Seveso Directive.

## **Danger criteria**

Category		
P5c E2		
E2		



SECTION 15: Regu	latory information
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.
NACE	: Not available.
UC62	: Not available.
International regulations	
Chemical Weapon Conve	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention on Not listed.	n Persistent Organic Pollutants
Rotterdam Convention on Not listed.	n Prior Informed Consent (PIC)
UNECE Aarhus Protocol Not listed.	on POPs and Heavy Metals
Inventory list	
Europe	: Not determined.
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.
SECTION 16: Other	rinformation
Indicates information that	at has changed from previously issued version.
Abbraviations and	ATE = Aquita Tavijaitu Estimata

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
•	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
<b>F</b> am. 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

<b>SECTION 16: Other</b>	information	
<b>F</b> 226		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.
H330		Fatal if inhaled.
H332		Harmful if inhaled.
H335		May cause respiratory irritation.
H336		May cause drowsiness or dizziness.
H341		Suspected of causing genetic defects.
H350		May cause cancer.
H360		May damage fertility or the unborn child.
H360Df		May damage the unborn child. Suspected of damaging fertility.
H361fd		Suspected of damaging fertility. Suspected of damaging the
		unborn child.
H372		Causes damage to organs through prolonged or repeated
		exposure.
H373		May cause damage to organs through prolonged or repeated
		exposure.
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]	
t		
Acute Tox. 2 Acute Tox. 4		ACUTE TOXICITY - Category 2
Aquatic Acute 1		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Acute 1 Aquatic Chronic 1		AQUATIC HAZARD (ACOTE) - Category 1
Aquatic Chronic 2		AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 2		AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3
Carc. 1B		CARCINOGENICITY - Category 1B
		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Dam. 1		SERIOUS EYE DAMAGE/ EYE IRRITATION - Calegory 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Calegory 2
Eye Irrit. 2		
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3
Muta. 2		GERM CELL MUTAGENICITY - Category 2
Repr. 1A		TOXIC TO REPRODUCTION - Category 1A
Repr. 1B		TOXIC TO REPRODUCTION - Category 1B
Repr. 2		TOXIC TO REPRODUCTION - Category 2
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. 1B		SKIN SENSITIZATION - Category 1B
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		Category 3
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# **SECTION 16: Other information**

#### 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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