

# **SAFETY DATA SHEET**

FRC MATT HARDENER

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

1.1 Product identifier	
Product name	: FRC MATT HARDENER
SDS code	: 6800000D005K

#### 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	: Waterborne coating for interior use.

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

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

1.4 Emergency telephone number

responsible for this SDS

National advisory body/P	<u>oison Center</u>
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	•
riours 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 Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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

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

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### **SECTION 2: Hazards identification**

#### 2.2 Label elements Hazard pictograms Signal word : Warning **Hazard statements** : Flammable liquid and vapor. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. **Precautionary statements** Prevention : Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. : IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off Response contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. : Store in a well-ventilated place. Keep container tightly closed. Keep cool. Storage Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. **Hazardous ingredients** : 2-ethoxy-1-methylethyl acetate Polyisocyanate, aliphatic hexamethylene-di-isocyanate dibutyltin dilaurate Supplemental label : Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or elements professional use. **Annex XVII - Restrictions** : Not applicable. 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 : This mixture does not contain any substances that are assessed to be a PBT or a Product meets the criteria for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : None known. not result in classification



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

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Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
1,3,5-Triazine-2,4,6(1H,3H,5H)- trione, 1,3,5-tris(6-isocyanatohexyl) -, reaction products with polyethylene glycol monomethyl ether	CAS: 129217-88-5	≥50 - ≤75	Aquatic Chronic 3, H412	[1]
2-ethoxy-1-methylethyl acetate	EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
Polyisocyanate, aliphatic n-butyl acetate	- REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25 ≤3	Skin Sens. 1, H317 Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [1] [2]
pentane-2,4-dione	Index: 607-025-00-1 REACH #: 01-2119458968-15 EC: 204-634-0 CAS: 123-54-6 Index: 606-029-00-0	<1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331	[1]
hexamethylene-di-isocyanate	EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	≤0.3	Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
dibutyltin dilaurate	REACH #: 01-2119496068-27 EC: 201-039-8 CAS: 77-58-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 (thymus) STOT RE 1, H372 (immune system) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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

Туре

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

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



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

#### 4.1 Description of first aid measures

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Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	:	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. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or 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.

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

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. 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 isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Polyisocyanate, aliphatic, hexamethylene-di-isocyanate, dibutyltin dilaurate. May produce an allergic reaction.

### Over-exposure signs/symptoms

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# SECTION 4: First aid measures

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **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	iror	n 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, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
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 Evacuate surrounding areas. Keep unnecessary and unprotected per entering. Do not touch or walk through spilled material. Shut off all it No flares, smoking or flames in hazard area. Avoid breathing vapor Provide adequate ventilation. Wear appropriate respirator when vent inadequate. Put on appropriate personal protective equipment.	
For emergency responders	: If specialized clothing is required to de information in Section 8 on suitable ar information in "For non-emergency pe	d unsuitable materials. See also the
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### **SECTION 6: Accidental release measures**

6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials f	or 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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

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S	ECTION 7: Handling and storage		
		Notification and MAPP threshold	Safety report threshold
	P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

## **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**

n-butyl acetate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). STEL: 960 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 720 mg/m <sup>3</sup> 8 hours. TWA: 150 ppm 8 hours.
hexamethylene-di-isocyanate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). Notes: calculated as NCO STEL: 0.035 mg/m <sup>3</sup> , (calculated as NCO) 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). Absorbed through skin. TWA: 1 mg/m <sup>3</sup> , (calculated as CN) 8 hours.
dibutyltin dilaurate	Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). Absorbed through skin. Notes: calculated as Sn STEL: 0.3 mg/m³, (calculated as Sn) 15 minutes. TWA: 0.1 mg/m³, (calculated as Sn) 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**

Туре	Exposure	Value	Population	Effects
DNEL	Long term Oral	13.1 mg/	General	Systemic
		kg bw/day	population	
DNEL	Long term Dermal	62 mg/kg	General	Systemic
	-	bw/day	population	-
DNEL	Long term Dermal	103 mg/kg	Workers	Systemic
	5			,
DNEL	Lona term		General	Systemic
	Inhalation	- 0	population	,
: 1-10-2022		Version	:1	
: No previous va	lidation	7/19		AkzoNobe
	DNEL DNEL DNEL DNEL DNEL : 1-10-2022	DNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong termInhalation	DNELLong term Oral13.1 mg/ kg bw/dayDNELLong term Dermal62 mg/kg bw/dayDNELLong term Dermal103 mg/kg bw/dayDNELLong term Dermal103 mg/kg bw/dayDNELLong term Inhalation181 mg/m³	DNEL     Long term Oral     13.1 mg/ kg bw/day     General population       DNEL     Long term Dermal     62 mg/kg     general       DNEL     Long term Dermal     103 mg/kg     workers       DNEL     Long term Dermal     103 mg/kg     bw/day       DNEL     Long term     181 mg/m³     General       DNEL     Long term     181 mg/m³     General       DNEL     Long term     181 mg/m³     General       :1-10-2022     Version     :1

	DNEL	Long term	0.035 mg/	Workers	Systemic
-	DNEL			Workers	Systemic
nexamethylene-di-isocyanate	DNEL	Long term	0.035 mg/ m³	Workers	Local
peyamethylene di isocyanate		Inhalation	-		
	DNEL	Long term	bw/day 84 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	12 mg/kg	Workers	Systemic
pentane-2,4-dione		-	bw/day	population	
pentane-2,4-dione	DNEL	Inhalation Long term Oral	7 mg/kg	General	Systemic
		Inhalation	0		
	DNEL	Short term	960 mg/m³	Workers	Systemic
	DNEL	Short term	960 mg/m³	Workers	Systemic
	DNEL		960 ma/m³	Workers	Systemic
		Inhalation	-		
	DNEL		960 mg/m³	Workers	Local
	DNEL	Short term	960 mg/m³	Workers	Local
	DNEL				Local
		Inhalation	m <sup>3</sup>	population	
			m³	population	,
	DNEL	Short term Inhalation	859.7 mg/ m³	General population	Systemic
			-		
			-		
			-		-
			-		-
		Inhalation			
	DNFI				Local
	DNEL		960 mg/m³	Workers	Local
	DINEL		300 mg/m	VV UINCIS	
			5		
		Inhalation			
	DNFI		960 ma/m³	Workers	Systemic
	DNEL		960 mg/m³	vvorkers	Systemic
			<b>J</b>		
				•	
pentane-2.4-dione	DNEL		7 ma/ka	General	Systemic
beniane-2,4-dione	DNEL	Long term Oral			Systemic
,					,
		Long torm Dames			Sustamia
	DNEL	Long term Dermal	12 mg/ka	Workers	Systemic
	DINEL	Long term Dermal		VVUIKEIS	Systemic
					, -
			bw/day		
		1			
	DNFI	Long term	84 ma/m³	Workers	Systemic
	DNEL		o4 mg/m°	VVOIKERS	Systemic
					,
		Inhalation			
oxamothylona di jacavanata			0.025 mal	Workere	
nexamethylene-di-isocyanate	DNEL	Long term	0.035 mg/	Workers	Local
		Inhalation	m³		
				\//orkara	Cultares:-
	DNEL	Long term	0.035 ma/	Workers	Systemic
	DINEL			VVUINEIS	Systemic
		Inhalation	m³ Ö		-
					<b>.</b> .
	DNEL	Short term	0.07 mg/m <sup>3</sup>	Workers	Local
	DINEL		0.07 mg/m°	VVUIKEIS	LOCAL
		Inhalation	-		
			0.07.00/0	VA / a mla size	0
	DNEL	Short term	0.07 mg/m <sup>3</sup>	Workers	Systemic
					,
		Inhalation			
dibutyltin dilaurate	DNEL	Short term Dermal	1 mg/kg	Workers	Systemic
				11011013	Gysternic
			bw/day		
		Chart tarma		\//orkara	Cultares: -
	DNEL	Short term	0.07 mg/m <sup>3</sup>	Workers	Systemic
					,
		Inhalation			
	DNEL		0.2  ma/ka	Workers	Systemic
		Long term Dermal	0.2 mg/kg	VVOIKERS	Systemic
			bw/day		-
	DINEL				
			Dw/day		
		Long torm		Workere	Systemia
	DNEL	Long term	0.01 mg/m <sup>3</sup>	Workers	Systemic
		-		Workers	Systemic
		Long term Inhalation		Workers	Systemic
	DNEL	Inhalation	0.01 mg/m <sup>3</sup>		
		-	0.01 mg/m <sup>3</sup> 0.5 mg/kg	Workers General	Systemic Systemic
	DNEL	Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg	General	-
	DNEL	Inhalation	0.01 mg/m <sup>3</sup>	General population	-
	DNEL	Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg	General population	-
	DNEL DNEL	Inhalation Short term Dermal	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL DNEL	Inhalation Short term Dermal	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Inhalation Short term Dermal Short term	0.01 mg/m <sup>3</sup> 0.5 mg/kg	General population [Consumers] General	-
	DNEL DNEL	Inhalation Short term Dermal Short term	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day	General population [Consumers] General	Systemic
	DNEL DNEL	Inhalation Short term Dermal	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day	General population [Consumers] General population	Systemic
	DNEL DNEL	Inhalation Short term Dermal Short term	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day	General population [Consumers] General population	Systemic
	DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup>	General population [Consumers] General population [Consumers]	Systemic Systemic
	DNEL DNEL	Inhalation Short term Dermal Short term Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup>	General population [Consumers] General population	Systemic Systemic
	DNEL DNEL DNEL	Inhalation Short term Dermal Short term	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/	General population [Consumers] General population [Consumers] General	Systemic
	DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/	General population [Consumers] General population [Consumers] General	Systemic Systemic
	DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup>	General population [Consumers] General population [Consumers] General population	Systemic Systemic
	DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/	General population [Consumers] General population [Consumers] General	Systemic Systemic
	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day	General population [Consumers] General population [Consumers] General population [Consumers]	Systemic Systemic Systemic
	DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/	General population [Consumers] General population [Consumers] General population [Consumers] General	Systemic Systemic
	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/	General population [Consumers] General population [Consumers] General population [Consumers] General	Systemic Systemic Systemic
	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day	General population [Consumers] General population [Consumers] General population [Consumers] General population	Systemic Systemic Systemic
	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/	General population [Consumers] General population [Consumers] General population [Consumers] General population	Systemic Systemic Systemic
	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/	General population [Consumers] General population [Consumers] General population [Consumers] General	Systemic Systemic Systemic
	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/ kg bw/day	General population [Consumers] General population [Consumers] General population [Consumers] General population [Consumers]	Systemic Systemic Systemic
of issue/Date of revision	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/ kg bw/day	General population [Consumers] General population [Consumers] General population [Consumers] General population [Consumers]	Systemic Systemic Systemic
of issue/Date of revision	DNEL DNEL DNEL DNEL	Inhalation Short term Dermal Short term Inhalation Short term Oral	0.01 mg/m <sup>3</sup> 0.5 mg/kg bw/day 0.02 mg/m <sup>3</sup> 0.01 mg/ kg bw/day 0.08 mg/	General population [Consumers] General population [Consumers] General population [Consumers] General population [Consumers]	Systemic Systemic Systemic

SECTION 8: Exposure controls/	personal prote	ction		
DNEL	Long term Inhalation	0.003 mg/ m³	General population [Consumers]	Systemic
DNEL	Long term Oral	0.002 mg/ kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Oral	0.004 mg/ kg bw/day	General population	Systemic
DNEL	Long term Inhalation	0.006 mg/ m <sup>3</sup>	General population	Systemic
DNEL	Short term Oral	0.02 mg/ kg bw/day	General population	Systemic
DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Dermal	0.16 mg/ kg bw/day	General population	Systemic
DNEL	Long term Dermal	0.42 mg/ kg bw/day	Workers	Systemic
DNEL	Short term Dermal	1 mg/kg bw/day	General population	Systemic
DNEL	Short term Dermal	2.08 mg/ kg bw/day	Workers	Systemic

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
dibutyltin dilaurate	Fresh water	0.463 µg/l	-
•	Marine water	0.0463 µg/l	-
	Fresh water sediment	0.05 mg/kg	-
	Marine water sediment	0.005 mg/kg	-
	Soil	0.0407 mg/kg	-
	Sewage Treatment	100 mg/l	-
	Plant	-	

### 8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	sures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	



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

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

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Colorless.		
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: 59°C		
Evaporation rate	: Not available.		
Flammability (solid, gas)	: Not available.		
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# **SECTION 9: Physical and chemical properties**

Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 1.23 (Air = 1)
Density	:	1.083 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): 0.92 cm²/s Kinematic (40°C): 1.01 cm²/s

<b>SECTION 10: Stabilit</b>	y 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
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m <sup>3</sup>	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
pentane-2,4-dione	LD50 Dermal	Rabbit	810 uL/kg	-
•	LD50 Intraperitoneal	Mouse	750 mg/kg	-
	LD50 Oral	Mouse	951 mg/kg	-
	LD50 Oral	Rat	55 mg/kg	-
	LD50 Oral	Rat	55 mg/kg	-
hexamethylene-di-	LC50 Inhalation Dusts and	Rat	124 mg/m <sup>3</sup>	4 hours
isocyanate	mists		5	
5	LC50 Inhalation Dusts and	Rat	462 mg/m <sup>3</sup>	4 hours
	mists		- U	
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e of previous issue	: No previous validation	11/19		AkzoNob

# **SECTION 11: Toxicological information**

1				
	LD50 Dermal	Rabbit	570 uL/kg	-
	LD50 Intravenous	Mouse	5600 µg/kg	-
	LD50 Oral	Mouse	350 mg/kg	-
	LD50 Oral	Rat	710 uL/kg	-
dibutyltin dilaurate	LC50 Inhalation Dusts and	Mouse	150 mg/m <sup>3</sup>	2 hours
-	mists		_	
	LD50 Intraperitoneal	Mouse	180 mg/kg	-
	LD50 Intravenous	Rat	33 mg/kg	-
	LD50 Oral	Mouse	210 mg/kg	-
	LD50 Oral	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	175 mg/kg	-

Conclusion/Summary : Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	488 mg	-
	Skin - Mild irritant	Rabbit	-	6 hours 11.2 MI I	-
	Skin - Moderate irritant	Rabbit	-	48 hours	-
				11.2 MI I	
	Skin - Moderate irritant	Rabbit	-	6 hours 33.6	-
				MH	
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxicit	ty (single exposure)				

Product/ingredient name	Category	Route of exposure	Target organs
2-ethoxy-1-methylethyl acetate n-butyl acetate hexamethylene-di-isocyanate	Category 3 Category 3 Category 3	- - -	Narcotic effects Narcotic effects Respiratory tract irritation
dibutyltin dilaurate	Category 1	-	thymus

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
dibutyltin dilaurate	Category 1	-	immune system

### Aspiration hazard

Not available.



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<b>SECTION 11: Toxico</b>	logical information
Information on the likely routes of exposure	: Not available.
Potential acute health effects	<u>S</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
-	cts and also chronic effects from short and long term exposure
Short term exposure Potential immediate effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health 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	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	. Not available

### 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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Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
pentane-2,4-dione	Acute EC50 75000 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
	Acute EC50 75000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute EC50 75000 µg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 35400 ul/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 47600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 74300 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 66900 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 60100 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 71600 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 71700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### **SECTION 12: Ecological information**

Conclusion/Summary

: Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-ethoxy-1-methylethyl acetate	0.76	-	low
n-butyl acetate pentane-2,4-dione	2.3 0.68	-	low low
hexamethylene-di- isocyanate	0.02	- 57.63	low
dibutyltin dilaurate	4.44	2.91	low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

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

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

### **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment methods

Product

Date of issue/Date of revision Date of previous issue



# **SECTION 13: Disposal considerations**

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	<ul> <li>Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> <li>If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.</li> <li>For further information, contact your local waste authority.</li> </ul>

### 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	: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group		111	111
14.5 Environmental hazards	No.	No.	No.
Additional information			

ADR/RID	: <u>Tunnel code</u> (D/E)		
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# **SECTION 14: Transport information**

IMDG	:	Emergency schedules F-E, _S-E_
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.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

# **SECTION 15: Regulatory information**

15.1 Safety, health and environed to the second sec	onmental regulations/legislation specific for the substance or mixture 7/2006 (REACH)
• • •	nces subject to authorization
Annex XIV	
None of the components a	re listed.
Substances of very high	<u>concern</u>
None of the components a	re listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
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 substanc	<u>es (1005/2009/EU)</u>
Not listed.	

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

Ingredient name	Annex	Status
dibutyltin dilaurate	Annex I - Part 1	Listed

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category	
P5c	



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	ntion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention or Not listed.	n Persistent Organic Pollutants
Rotterdam Convention on Not listed.	n Prior Informed Consent (PIC)
UNECE Aarhus Protocol o	on POPs and Heavy Metals
Not listed.	
Inventory list	
Europe	: Not determined.
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.
<b>SECTION 16: Other</b>	information
Indicates information that	t has changed from previously issued version.

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements



SECTION 16: Other ir	nformation
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
Full toxt of classifications [C]	

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

Date of printing	: 21 October 2022		
STOT 3E 3	Category 3		
STOT SE 3	Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -		
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -		
	EXPOSURE) - Category 1		
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED		
Skin Sens. 1	SKIN SENSITIZATION - Category 1		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Resp. Sens. 1			
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B		
Muta. 2	GERM CELL MUTAGENICITY - Category 2		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2		
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3		
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1		
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1		
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Acute Tox. 3	ACUTE TOXICITY - Category 3		

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Unique ID	:

### Notice to reader

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

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# **SECTION 16: Other information**

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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