

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

SAFETY DATA SHEET

FR2-55 TUK BLACK RAL 9011

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

Product name	: FR2-55 TUK BLACK RAL 9011
SDS code	: 55909011K

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

	Identified uses
Paint. Professional u	e 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/Poison Center				
+33 (0)1 40 05 48 48				
+33 (0)5 34 01 34 01				
+33 (0)5 61 60 23 30				

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

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

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

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

2.2 Label elements

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		FR2-55 TUK BLACK RAL 9011
SECTION 2: Hazards	ic	lentification
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapor. May cause an allergic skin reaction.
Precautionary statements		
Prevention	:	Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor.
Response	:	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	:	Store in a well-ventilated place. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Polyisocyanate, aliphatic C(M)IT/MIT(3:1)
Supplemental label elements	:	Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	ts
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : N	lixture			
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	≤10	Aquatic Chronic 3, H412	[1]
2-ethoxy-1-methylethyl acetate	EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
Polyisocyanate, aliphatic	-	≤3	Skin Sens. 1, H317	[1]
2-butoxyethanol	REACH #:	<1	Acute Tox. 4, H302	[1] [2]
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SECTION 3: Composit			A sute Tax A LIGAC	1
	01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0		Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
4-isocyanatosulphonyltoluene	EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014	[1]
C(M)IT/MIT(3:1)	REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5	≤0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	[1]
1,4-dioxane	EC: 204-661-8 CAS: 123-91-1 Index: 603-024-00-5	<0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 1B, H350 STOT SE 3, H335 EUH019 EUH066	[1] [2]
ethylene oxide	EC: 200-849-9 CAS: 75-21-8 Index: 603-023-00-X	<0.1	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360Fd STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 (nervous system)	[1] [2]
ammonia, anhydrous	EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5	<0.1	Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1)	[1] [2]
chlorobenzene	REACH #: 01-2119432722-45 EC: 203-628-5 CAS: 108-90-7 Index: 602-033-00-1	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[1] [2]

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

SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: 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 not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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

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

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.

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SECTION 4: First aid measures

Repeated or prolonged contact with irritants may cause dermatitis.

Contains Polyisocyanate, aliphatic, 4-isocyanatosulphonyltoluene, C(M)IT/MIT(3:1). May produce an allergic reaction. **Over-exposure signs/symptoms**

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	Jse dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing media	o not use water jet.	
5.2 Special hazards arising f	he substance or mixture	
Hazards from the substance or mixture	lammable liquid and vapor. Runoff to sewer may create fire or explosion haza n a fire or if heated, a pressure increase will occur and the container may burst ne risk of a subsequent explosion.	
Hazardous combustion products	Decomposition products may include the following materials: arbon dioxide arbon monoxide alogenated compounds netal 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 incide nere is a fire. No action shall be taken involving any personal risk or without uitable training. Move containers from fire area if this can be done without risk Jse water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	ire-fighters should wear appropriate protective equipment and self-contained reathing apparatus (SCBA) with a full face-piece operated in positive pressure node. Clothing for fire-fighters (including helmets, protective boots and gloves) onforming to European standard EN 469 will provide a basic level of protection hemical incidents.)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency	: No action shall be taken involving any personal risk or without suitable training.
personnel	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. Avoid breathing vapor or mist.
	Provide adequate ventilation. Wear appropriate respirator when ventilation is
	inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accident	tal release measures
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).
6.3 Methods and materials for	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.
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. 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. 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

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SECTION 7: Handling and storage

Danger criteria Category Notification and MAPP Safety report threshold threshold P5c 5000 tonne 50000 tonne

7.3 Specific end use(s)

: Not available.

Recommendations Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2-butoxyethanol	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 10 ppm 8 hours. TWA: 49 mg/m ³ 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
1,4-dioxane	 Ministry of Labor (France, 3/2020). Notes: Indicative limit values (circular) STEL: 140 mg/m³ 15 minutes. Form: Risk for sensitisation STEL: 40 ppm 15 minutes. Form: Risk for sensitisation Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 73 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation
ethylene oxide	Ministry of Labor (France, 3/2020). Notes: Indicative limit values (circular) TWA: 1 ppm 8 hours. STEL: 5 ppm 15 minutes.
ammonia, anhydrous	Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 14 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 20 ppm 15 minutes. Form: Risk for sensitisation TWA: 7 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 10 ppm 8 hours. Form: Risk for sensitisation
chlorobenzene	Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 70 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 15 ppm 15 minutes. Form: Risk for sensitisation TWA: 23 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 5 ppm 8 hours. Form: Risk for sensitisation



SECTION 8: Exposure controls/personal protection

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness procedures of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-ethoxy-1-methylethyl acetate	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
		Ū	bw/day		,
	DNEL	Long term	181 mg/m ³	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term	302 mg/m ³	Workers	Systemic
		Inhalation	<u>-</u>		-,
	DNEL	Short term	365 mg/m ³	General	Systemic
	DITE	Inhalation	ooo mg/m	population	Cyclonic
	DNEL	Short term	608 mg/m ³	Workers	Systemic
	DINEL	Inhalation	ooo mg/m	Workers	Oysternie
2-butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
	DINCL	Long term Ora	bw/day	population	Oysternic
	DNEL	Short term Oral	26.7 mg/	General	Sustamia
	DINEL	Short term Orai	kg bw/day		Systemic
			0	population	Curatanaia
	DNEL	Long term	59 mg/m³	General	Systemic
		Inhalation	75 1	population	
	DNEL	Long term Dermal	75 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	89 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	89 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	125 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	147 mg/m ³	General	Local
		Inhalation	Ũ	population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation	J. J.		
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	<u> </u>	population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m ³		- ,
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/	General	Systemic
	2.,22		kg bw/day	population	
	DNEL	Long term Dermal	0.46 mg/	General	Systemic
		Long tonin Donna	kg bw/day	population	5,5001110
	DNEL	Long term	0.8 mg/m^3	General	Systemic
		Inhalation	0.0 mg/m	population	Cysternic
	DNEL	Long term Dermal	0.92 mg/	Workers	Systemic
	DINEL	Long term Demia	0.92 mg/	VVUINCIS	Systemic
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			kg bw/day		
	DNEL	Long term	3.24 mg/m ³	Workers	Systemic
		Inhalation	0.24 mg/m	Wonters	Cysternio
1,4-dioxane	DNEL	Long term Oral	0.24 mg/	General	Systemic
	DINCE	Long term oran	kg bw/day	population	Oysternie
	DNEL	Long term Dermal	12 mg/kg	General	Systemic
		Long term Derma	bw/day	population	Oysternic
	DNEL	Long term	18.25 mg/	General	Systemic
	DINEL	Inhalation	m ³	population	Systemic
	DNEL			Workers	Svetomia
	DINEL	Long term Dermal	21 mg/kg	WORKERS	Systemic
	DNEL	Short torm	bw/day	Conorol	
	DINEL	Short term	72 mg/m³	General	Local
		Inhalation	70	population	O. un tra una line
	DNEL	Long term	73 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	144 mg/m ³	Workers	Local
		Inhalation		a .	
ammonia, anhydrous	DNEL	Long term	2.8 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term Oral	6.8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	6.8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6.8 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term Dermal	6.8 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	7.2 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	14 mg/m³	Workers	Local
		Inhalation	-		
	DNEL	Short term	16 mg/m ³	Workers	Local
		Inhalation	- J.		
	DNEL	Short term	23.8 mg/m ³	General	Systemic
		Inhalation	5	population	5
	DNEL	Long term	23.8 mg/m ³	General	Systemic
		Inhalation	J.	population	5
	DNEL	Short term	47.6 mg/m ³	Workers	Systemic
		Inhalation			- ,
	DNEL	Long term	47.6 mg/m ³	Workers	Systemic
		Inhalation			- ,
	DNEL	Short term Dermal	68 mg/kg	General	Systemic
			bw/day	population	-,
	DNEL	Long term Dermal	68 mg/kg	General	Systemic
			bw/day	population	0,0001110
chlorobenzene	DNEL	Short term	1 mg/m^3	General	Systemic
		Inhalation		population	- , , , , , , , , , , , , , , , , , , ,
	DNEL	Long term	1 mg/m³	General	Systemic
		Inhalation		population	<i>c</i> , storno
	DNEL	Short term Oral	3 mg/kg	General	Systemic
			bw/day	population	Cysternic
	DNEL	Long term Oral	3 mg/kg	General	Systemic
	DIVEL		bw/day	population	Systemic
		Short term Dermal	-	General	Sustamia
	DNEL	Short term Dermal	3 mg/kg		Systemic
			bw/day	population	Overte
	DNEL	Long term Dermal	3 mg/kg	General	Systemic
	D		bw/day	population	
	DNEL	Long term Dermal	5 mg/kg	Workers	Systemic
	D		bw/day		
	DNEL	Short term Dermal	15 mg/kg	Workers	Systemic
	DIVLL				-
	DINEL		bw/day		

: No previous validation

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SECTION 8: Exposu	re con	trols/p	ersonal prote	ction		
		DNEL DNEL	Long term Inhalation Short term Inhalation	23 mg/m ³ 70 mg/m ³	Workers Workers	Systemic Systemic
PNECs			I		-	
No PNECs available.						
8.2 Exposure controls						
Appropriate engineering controls	vent cont cont	ilation or aminants rols also	adequate ventilation other engineering co below any recommended need to keep gas, va its. Use explosion-p	ontrols to kee ended or stat apor or dust o	p worker expos utory limits. Th concentrations l	ure to airborne le engineering
Individual protection meas	ures					
Hygiene measures	befc App Con cont	re eating ropriate t taminate aminatec		the lavatory used to rem ld not be allo sing. Ensure	and at the end ove potentially wed out of the v	of the working period. contaminated clothing. workplace. Wash
Eye/face protection	asse gase unle	essment i es or dus	ndicates this is nece ts. If contact is poss	ssary to avoi ible, the follo	d exposure to li wing protection	be used when a risk quid splashes, mists, should be worn, n: safety glasses with
Skin protection						
Hand protection	be v this cheo shou diffe seve	vorn at al is necess ck during uld be no rent for d	times when handling	g chemical p e parameters are still retain reakthrough acturers. In	roducts if a risk specified by th ing their protec for any glove m the case of mixi	aterial may be tures, consisting of
	prot recc Whe (bre Rec Glov	ection cla mmende en only br akthroug ommend	ged or frequently rep iss of 6 (breakthroug id. Recommended g ief contact is expect h time >30 minutes a ed gloves: Nitrile, thic d be replaced regula	h time >480 loves: Viton ed, a glove w according to I ckness ≥ 0.1.	minutes accord ® or Nitrile, thic ⁄ith protection cl EN374) is recor 2 mm.	ing to EN374) is kness ≥ 0.38 mm. lass of 2 or higher
	chei The proc	nical dan user mus luct is the		enance. I choice of ty nd takes into	pe of glove sele account the pa	ed by physical/ ected for handling this rticular conditions of
Body protection	bein befo wea disc Euro	g perforn re handli r anti-sta harges, c opean Sta	tic protective clothing	olved and sh en there is a g. For the gre e anti-static	ould be approve risk of ignition f eatest protection overalls, boots a	ed by a specialist from static electricity, n from static 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	:	Black.
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: 59°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: >1 (Air = 1) (Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether). Weighted average: 1.17 (Air = 1)
Density	:	1.158 g/cm³
Solubility(ies)	:	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/	:	Not available.
water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 0.78 cm²/s Kinematic (40°C): 1.01 cm²/s

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to	o reactivity available for this pr	oduct or its ingredients.
10.2 Chemical stability	: The product is stable.		
10.3 Possibility of hazardous reactions	: Under normal conditions of st	orage and use, hazardous rea	ctions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of i braze, solder, drill, grind or ex		
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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
2-butoxyethanol	LC50 Inhalation Gas.	Mouse	700 ppm	7 hours
	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	3380 mg/m ³	7 hours
	LC50 Inhalation Vapor	Rat	2900 mg/m ³	7 hours
	LD50 Dermal	Guinea pig	230 uL/kg	-
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Mouse	536 mg/kg	-
	LD50 Intraperitoneal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Rat	220 mg/kg	-
	LD50 Intravenous	Mouse	1130 mg/kg	-
	LD50 Intravenous	Rabbit	252 mg/kg	-
	LD50 Intravenous	Rat	307 mg/kg	_
	LD50 Oral	Guinea pig	1200 mg/kg	_
	LD50 Oral	Mouse	1230 mg/kg	
	LD50 Oral	Mouse	1167 mg/kg	_
	LD50 Oral	Rabbit	300 mg/kg	
	LD50 Oral	Rabbit		-
	LD50 Oral	Rat	320 mg/kg	-
			917 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
	LD50 Route of exposure unreported	Mouse	1050 mg/kg	-
	LD50 Route of exposure unreported	Rat	917 mg/kg	-
4-isocyanatosulphonyltoluene	LD50 Intraperitoneal	Rat	775 mg/kg	_
· · · · · · · · · · · · · · · · · · ·	LD50 Oral	Rat	2234 mg/kg	_
1,4-dioxane	LC50 Inhalation Vapor	Mouse	37 g/m ³	2 hours
	LC50 Inhalation Vapor	Rat	46 g/m ³	2 hours
	LD50 Dermal	Rabbit	7600 uL/kg	-
	LD50 Intraperitoneal	Mouse	790 mg/kg	_
	LD50 Intraperitoneal	Rat	799 mg/kg	_
	LD50 Oral	Guinea pig	3150 mg/kg	_
	LD50 Oral	Mouse	5300 mg/kg	
	LD50 Oral	Rabbit	2 g/kg	_
	LD50 Oral	Rat	4200 mg/kg	_
ethylene oxide	LC50 Inhalation Gas.	Mouse	835 ppm	- 4 hours
	LC50 Inhalation Gas.	Rat	800 ppm	4 hours
	LC50 Inhalation Gas.	Rat	1460 ppm	4 hours
	LC50 Inhalation Vapor	Guinea pig	1500 mg/m ³	4 hours
	LD50 Intraperitoneal	Mouse	175 mg/kg	-
	LD50 Intravenous	Mouse	290 mg/kg	-
	LD50 Oral	Guinea pig	270 mg/kg	-
	LD50 Oral	Rat	72 mg/kg	-
	LD50 Subcutaneous	Rat	187 mg/kg	-
ammonia, anhydrous	LC50 Inhalation Gas.	Mouse	4230 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	4500 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	21430 ppm	30 minutes
	LC50 Inhalation Gas.	Rat	9500 ppm	1 hours
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SECTION 11: Toxicological information

	LC50 Inhalation Gas.	Rat	17401 ppm	15 minutes
	LC50 Inhalation Gas.	Rat	2000 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	4600 mg/m ³	2 hours
	LC50 Inhalation Vapor	Rabbit	7 g/m³	1 hours
	LC50 Inhalation Vapor	Rat	7040 mg/m ³	30 minutes
	LC50 Inhalation Vapor	Rat	4673 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	4673 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	18600 mg/m ³	5 minutes
chlorobenzene	LC50 Inhalation Gas.	Mouse	4300 ppm	2 hours
	LC50 Inhalation Gas.	Mouse	1886 ppm	6 hours
	LC50 Inhalation Gas.	Rat	2965 ppm	6 hours
	LC50 Inhalation Vapor	Rat	39700 mg/m ³	3.75 hours
	LD50 Dermal	Rabbit	>7940 mg/kg	-
	LD50 Intraperitoneal	Mouse	515 mg/kg	-
	LD50 Intraperitoneal	Rat	1655 mg/kg	-
	LD50 Oral	Guinea pig	2250 mg/kg	-
	LD50 Oral	Mouse	2300 mg/kg	-
	LD50 Oral	Rabbit	2250 mg/kg	-
	LD50 Oral	Rat	1110 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
	LD50 Oral	Rat	1540 mg/kg	-
	LD50 Route of exposure unreported	Rabbit	2830 mg/kg	-
	LD50 Route of exposure unreported	Rat	2950 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	-			mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
4-isocyanatosulphonyltoluene	Eyes - Moderate irritant	Rabbit	-	100 UI	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				UI	
1,4-dioxane	Eyes - Moderate irritant	Guinea pig	-	10 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	-			mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	515 mg	-
ethylene oxide	Eyes - Moderate irritant	Rabbit	-	6 hours 18	-
	•			mg	

Conclusion/Summary

<u>Sensitization</u>

<u>densitization</u>	
Conclusion/Summary	: Not available.

: Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
ethylene oxide	-	Subject: Mammalian-Animal	Positive
Conclusion/Summary	: Not available.		
<u>Carcinogenicity</u>			
Conclusion/Summary	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		
<u>Teratogenicity</u>			
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Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2-ethoxy-1-methylethyl acetate 4-isocyanatosulphonyltoluene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phys	sic	al, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation
		redness
Ingestion	:	No specific data.
•	S	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>S</u>
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.

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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 not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name	Result	Species	Exposur
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1490000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
1,4-dioxane	Acute LC50 1.5 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 10800000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9850000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 12326000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9872000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 6700000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
thylene oxide	Acute LC50 1000000 µg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 490000 µg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 300000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 137000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 200000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 84000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
mmonia, anhydrous	Acute EC50 29.2 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
annyarodo	Acute LC50 2500 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 4980 µg/l Marine water	Crustaceans - Penaeus	48 hours
		japonicus - Nauplii	To nouro
	Acute LC50 5210 μg/l Marine water	Crustaceans - Fenneropenaeus penicillatus - Zoea	48 hours
	Acute LC50 2080 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2710 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		reticulata	
	Acute LC50 0.53 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4180 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4130 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 300 µg/l Fresh water	Fish - Hypophthalmichthys nobilis	96 hours
	Acute LC50 450 µg/l Fresh water	Fish - Oncorhynchus	96 hours
		tshawytscha - Underyearling	
	Acute LC50 380 µg/l Fresh water	Fish - Hypophthalmichthys	96 hours
		molitrix - Fingerling	
	Acute LC50 660 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Acute LC50 440 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Chronic NOEC 550 µg/l Fresh water	Fish - Rutilus rutilus - Embryo	31 days
	Chronic NOEC 0.204 mg/l Marine water	Fish - Dicentrarchus labrax	62 days
hlorobenzene	Acute EC50 20.2 mg/l Fresh water	Algae - Chlorella marina	72 hours
	Acute EC50 19.6 mg/l Fresh water	Algae - Phaeodactylum	72 hours
		tricornutum	
	Acute EC50 30.2 mg/l Fresh water	Algae - Platymonas	72 hours
		subcordiformis	
	Acute EC50 12.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 26.2 mg/l Fresh water	Algae - Nannochloropsis oculata	72 hours
		1	1
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 FR2-55 TUK BLACK RAL 9011

ECTION 12: Ecolog	ical information		
	Acute EC50 3.43 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 7900 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
	10	dubia - Neonate	
	Acute LC50 8900 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 11000 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 10400 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 11100 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 10.7 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 10700 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 8600 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 11500 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 12800 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 4500 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 3480 µg/l Fresh water	Fish - Carassius auratus - Egg	96 hours
	Acute LC50 2370 µg/l Fresh water	Fish - Carassius auratus - Egg	96 hours
	Acute LC50 3.58 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 2 mg/kg Fresh water	Fish - Carassius auratus	30 days
	Chronic NOEC 8500 µg/l Fresh water	Fish - Danio rerio - Egg	28 days

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
2-butoxyethanol 1,4-dioxane ethylene oxide chlorobenzene	0.81 -0.42 -0.3 2.46	-	low low low low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

<u>Product</u>		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	:	Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6). Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

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

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal consideration	 S : 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	IATA
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			
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SECTION 14: Transp	ort infor	mation	
14.5 No. Environmental hazards		No.	No.
Additional information ADR/RID IMDG		<u>code</u> (D/E) ency schedules F-E, _S-E_	
14.6 Special precautions for user	upright a		always transport in closed containers that an ns transporting the product know what to de
14.7 Transport in bulk according to IMO instruments	: Not app	licable.	
SECTION 15: Regula	atory info	rmation	
Annex XIV None of the components a Substances of very high None of the components a Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	concern	icable.	
Other EU regulations			
VOC			C on VOC apply to this product. Refer to the eet for further information.
		abel and/or technical data she	
VOC VOC for Ready-for-Use	product I	abel and/or technical data she icable.	
VOC VOC for Ready-for-Use Mixture Industrial emissions (integrated pollution prevention and control) -	product l : Not appli	abel and/or technical data she icable. d	

Not listed.

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

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria



SECTION 15: Regulatory information

Category

National regulations

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

Product/ingredient name	List name	Name on list	Classification	Notes
1,4-dioxane	France Occupational Exposure Limits	1,4-dioxane	Carc. C2	-
ethylene oxide	France Occupational Exposure Limits	oxyde d'éthylène	Carc. C1B, Muta. M1B	-
Social Security Code, Articles L 461-1 to L 461-7	: 2-butoxyethanol 1,4-dioxane ethylene oxide chlorobenzene		RG 84 RG 84 RG 66 RG 9	
Reinforced medical	: Decree n ° 2012-135	of January 30, 2012 re	elating to the organiz	ation of

surveillance

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Europe

: Not determined.

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates informatio	n that has changed from previously issued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level
	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]

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SECTION 16: Other information		
Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Skin Sens. 1, H317	Calculation method	
Failt fan fastelen ander fastelen ander		

<u>Full te</u> :	<u>of abbreviated H statements</u>

	•		
H220	Extremely	flammable gas.	
H221	Flammabl		
H225		nmable liquid and vapor.	
H226		e liquid and vapor.	
H280		jas under pressure; may explode if he	ated
	Toxic if sw		aleu.
H301			
H302		swallowed.	
H310		ntact with skin.	
H312		contact with skin.	
H314	Causes se	evere skin burns and eye damage.	
H315	Causes sk	in irritation.	
H317	May cause	e an allergic skin reaction.	
H319		erious eye irritation.	
H330	Fatal if inh		
H331	Toxic if inl		
H332	Harmful if		
			hing difficultion if
H334	-	e allergy or asthma symptoms or brea	ining difficulties if
	inhaled.		
H335		e respiratory irritation.	
H336		e drowsiness or dizziness.	
H340	May cause	e genetic defects.	
H350	May cause	e cancer.	
H360Fd		ge fertility. Suspected of damaging the	e unborn child.
H372		mage to organs through prolonged or	
	exposure.	5 5 51 5	I
H400		to aquatic life.	
H410		to aquatic life with long lasting effects	
H411		quatic life with long lasting effects.	
H412		aquatic life with long lasting effects.	
EUH014		lently with water.	
EUH019		explosive peroxides.	
EUH066		exposure may cause skin dryness or	cracking.
EUH071	Corrosive	to the respiratory tract.	
Full text of classifications [CLP/G	<u>HS]</u>		
Acute Tox. 2	ACUTE T	DXICITY - Category 2	
Acute Tox. 3		DXICITY - Category 3	
Acute Tox. 4		DXICITY - Category 4	
Aquatic Acute 1		HAZARD (ACUTE) - Category 1	4
Aquatic Chronic 1		HAZARD (LONG-TERM) - Category	
Aquatic Chronic 2		HAZARD (LONG-TERM) - Category 2	
Aquatic Chronic 3		HAZARD (LONG-TERM) - Category 3	3
Carc. 1B		GENICITY - Category 1B	
Eye Irrit. 2	SERIOUS	EYE DAMAGE/ EYE IRRITATION - C	Category 2
Flam. Gas 1A	FLAMMAE	BLE GASES - Category 1A	
Flam. Gas 2	FLAMMAE	BLE GASES - Category 2	
Flam. Lig. 2		BLE LIQUIDS - Category 2	
Flam. Liq. 3		BLE LIQUIDS - Category 3	
Muta. 1B		LL MUTAGENICITY - Category 1B	
Press. Gas (Comp.)		NDER PRESSURE - Compressed gas	s
Repr. 1B		REPRODUCTION - Category 1B	-
Resp. Sens. 1		TORY SENSITIZATION - Category 1	
Skin Corr. 1			
		RROSION/IRRITATION - Category 1	
Skin Corr. 1B		RROSION/IRRITATION - Category 1B	
Skin Corr. 1C		RROSION/IRRITATION - Category 1C	
Skin Irrit. 2		ROSION/IRRITATION - Category 2	
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SECTION 16: Other information		
Skin Sens. 1		SKIN SENSITIZATION - Category 1
Skin Sens. 1A		SKIN SENSITIZATION - Category 1A
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		Category 3
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