

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

SAFETY DATA SHEET

FRS-40 SEMI-GLOSS BASE BLACK METAL FR30070/9530

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

Product name SDS code : FRS-40 SEMI-GLOSS BASE BLACK METAL FR30070/9530 : 40929530B

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

	Identified uses	
Paint. Professional us	e Industrial use	
	Uses advised against	
All other uses		
Droduct uso	Solvent borne coating for interior use	

Product use

: Solvent borne coating for interior use.

1.3 Details of the supplier of the safety data sheet

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

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center		
: +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 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 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.

Date of issue/Date of revision	: 1-10-2022	Version : 1	
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SECTION 2: Hazards identification

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

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2.2 Label elements

Hazard pictograms



		* * *
Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor.
Response	:	IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	:	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	n-butyl acetate 4-methylpentan-2-one 4-morpholinecarbaldehyde methyl methacrylate Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Hydroxyphenyl-benzotriazole derivatives Polymeric Benzotriazole
Supplemental label elements	:	Repeated exposure may cause skin dryness or cracking.
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	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		



SECTION 2: Hazards identification

 Product meets the criteria for PBT or vPvB according to Regulation (EC) No.
 : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

 0ther hazards which do not result in classification
 : None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No.	Туре
			1272/2008 [CLP]	
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32 EC: 905-588-0	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
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]
4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	[1] [2]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
4-morpholinecarbaldehyde	EC: 224-518-3 CAS: 4394-85-8	≤0.3	Skin Sens. 1, H317	[1]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.3	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1,	[1]
Hydroxyphenyl-benzotriazole derivatives	REACH #: 01-0000015075-76	≤0.3	H410 (M=1) Skin Sens. 1, H317 Aquatic Chronic 2,	[1]
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SECTION 3: Composition/information on ingredients				
	EC: 400-830-7 CAS: 104810-48-2		H411	
isopropyl acetate	REACH #: 01-2119537214-46 EC: 203-561-1 CAS: 108-21-4 Index: 607-024-00-6	≤0.3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Polymeric Benzotriazole	CAS: 104810-47-1	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332	[1] [2]
cumene	REACH #: 01-2119473983-24 EC: 202-704-5 CAS: 98-82-8 Index: 601-024-00-X	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[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

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.		
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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. 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.		
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SECTION 4: First aid measures

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. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 4-morpholinecarbaldehyde, methyl methacrylate, Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, Hydroxyphenyl-benzotriazole derivatives, Polymeric Benzotriazole. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
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 dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immed	iate medical attention and special treatment needed

	alato modical attention and opeon		
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 		
Specific treatments	: No specific treatment.		
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SECTION 5: Firefighting measures

: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Do not use water jet.	
rom 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, wit 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.	
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides	
: 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.	
: 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, pro	ptective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

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contractor.

appropriate waste disposal container. Dispose of via a licensed waste disposal

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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

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

7.3 Specific end use(s)

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



SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit
	values (circular)
	STEL: 940 mg/m ³ 15 minutes. Form: Risk for sensitisation
	STEL: 200 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 710 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 150 ppm 8 hours. Form: Risk for sensitisation
mathewy 1 mathylathyl apatata	
2-methoxy-1-methylethyl acetate	Ministry of Labor (France, 10/2016). Absorbed through skin. Notes: Labour Act , Art 4412-149 (Regulatory binding
	exposure limits)
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Reaction mass of ethylbenzene and xylene	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 o
	the Labor Code)
	STEL: 442 mg/m ³ 15 minutes. Form: Risk for sensitisation
	STEL: 100 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 221 mg/m ³ 8 hours. Form: Risk for sensitisation
	TWA: 50 ppm 8 hours. Form: Risk for sensitisation
4-methylpentan-2-one	Ministry of Labor (France, 3/2020). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 208 mg/m ³ 15 minutes. Form: Risk for sensitisation
	STEL: 50 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 83 mg/m ³ 8 hours. Form: Risk for sensitisation
	TWA: 20 ppm 8 hours. Form: Risk for sensitisation
ethyl acetate	Ministry of Labor (France, 3/2020). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 734 mg/m ³ 8 hours. Form: Risk for sensitisation
	TWA: 200 ppm 8 hours. Form: Risk for sensitisation
	Ministry of Labor (France, 3/2020). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
methyl methacrylate	Ministry of Labor (France, 3/2020). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 410 mg/m ³ 15 minutes. Form: Risk for sensitisation
	STEL: 100 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 205 mg/m ³ 8 hours. Form: Risk for sensitisation
	TWA: 50 ppm 8 hours. Form: Risk for sensitisation
sopropyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit
	values (circular)
	STEL: 1140 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 950 mg/m ³ 8 hours.
	TWA: 250 ppm 8 hours.
cyclohexanone	Ministry of Labor (France, 3/2020). Notes: Binding regulator
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 81.6 mg/m ³ 15 minutes. Form: Risk for sensitisation
	STEL: 20 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 40.8 mg/m ³ 8 hours. Form: Risk for sensitisation
	TWA: 10 ppm 8 hours. Form: Risk for sensitisation
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SECTION 8: Exposure controls/personal protection

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cumene	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 250 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 50 ppm 15 minutes. Form: Risk for sensitisation TWA: 100 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation
Recommended moni procedures	toring : 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

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
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	12 mg/m ³	General	Systemic
		Inhalation	Ũ	population	
	DNEL	Long term	48 mg/m ³	Workers	Systemic
		Inhalation	Ũ		
	DNEL	Long term	102.34 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term	480 mg/m ³	Workers	Local
		Inhalation	Ŭ		
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	960 mg/m ³	Workers	Local
		Inhalation	Ū		
	DNEL	Short term	960 mg/m ³	Workers	Systemic
		Inhalation	-		
Reaction mass of ethylbenzene and	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
ylene			bw/day	population	
-	DNEL	Long term	14.8 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation	_		
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	289 mg/m ³	Workers	Local
		Inhalation	Ŭ		
	DNEL	Short term	289 mg/m ³	Workers	Systemic
		Inhalation			
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	DNEL	Long term Dermal	8 mg/kg bw/day	General population	Systemic
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	734 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	734 mg/m³	Workers	Local
	DNEL	Short term Inhalation	734 mg/m³	General	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local
	DNEL	Long term Dermal	bw/day 63 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Dermal	bw/day 37 mg/kg	population General	Systemic
ethyl acetate	DNEL	Inhalation Long term Oral	4.5 mg/kg	General	Systemic
	DNEL	Inhalation Short term	208 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	m ³ 208 mg/m ³	population Workers	Local
	DNEL	Inhalation Short term	m³ 155.2 mg/	population General	Systemic
	DNEL	Inhalation Short term	155.2 mg/	General	Local
	DNEL	Inhalation Long term	83 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term	83 mg/m³	population Workers	Local
	DNEL	Inhalation Long term	14.7 mg/m ³	population General	Systemic
	DNEL	Long term	kg bw/day 14.7 mg/m³	General	Local
	DNEL	Long term Dermal	bw/day 11.8 mg/	population Workers	Systemic
	DNEL	Long term Dermal	bw/day 4.2 mg/kg	population General	Systemic
4-methylpentan-2-one	DNEL	Inhalation Long term Oral	4.2 mg/kg	General	Systemic
	DNEL	Short term Inhalation Short term	365 mg/m ³ 608 mg/m ³	population Workers	Systemic Systemic
	DNEL	Long term Inhalation Short term	302 mg/m ³	Workers General	Systemic
	DNEL	Long term Inhalation	181 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	103 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
		Long term Oral	13.1 mg/ kg bw/day	population	Systemic

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: No previous validation



ECTION 8: Exposure	DNEL	Long term Dermal	14 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term Inhalation	29 mg/m³	General population	Systemic
	DNEL	Long term	98 mg/m³	Workers	Systemic
methyl methacrylate	DNEL	Inhalation Long term Dermal	8.2 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 13.67 mg/	population Workers	Systemic
			kg bw/day		
	DNEL	Long term Inhalation	74.3 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	104 mg/m ³	General population	Local
	DNEL	Long term	208 mg/m³	Workers	Local
	DNEL	Inhalation Long term Inhalation	208 mg/m ³	Workers	Systemic
isopropyl acetate	DNEL	Long term Oral	26 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 26 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 43 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	252 mg/m ³	General population	Local
	DNEL	Long term Inhalation	252 mg/m ³	General	Systemic
	DNEL	Long term Inhalation	420 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	420 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	510 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	850 mg/m ³	Workers	Systemic
cyclohexanone	DNEL	Short term Dermal	1 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 1 mg/kg	population General	Systemic
	DNEL	Short term Oral	bw/day 1.5 mg/kg	population General	Systemic
	DNEL	Long term Oral	bw/day 1.5 mg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 4 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m ³	General population	Systemic
	DNEL	Long term	20 mg/m³	General	Local
	DNEL	Inhalation Short term	20 mg/m³	population General	Systemic
	DNEL	Inhalation Short term	40 mg/m ³	population General	Local
	DNEL	Inhalation Long term	40 mg/m³	population Workers	Local
	DNEL	Inhalation Long term	40 mg/m³	Workers	Systemic
		I la halatian	1		
	DNEL	Inhalation Short term	80 mg/m³	Workers	Local
	DNEL		80 mg/m³	Workers	Local

ECTION 8: Exposure cont	rols/p	ersonal prote	ction		
	DNEL	Short term Inhalation	80 mg/m³	Workers	Systemic
cumene	DNEL	Long term Dermal	1.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	15.4 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	16.6 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	100 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	250 mg/m³	Workers	Local

PNECs

No PNECs available.

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	<u>ures</u>
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: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \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.



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SECTION 8: Exposure controls/personal protection

		The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Annooronoo

<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Black.
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: 28°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: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.73 (Air = 1)
Density	:	1.023 g/cm ³
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): 9.78 cm²/s Kinematic (40°C): 1.01 cm²/s



SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m ³	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	_
Reaction mass of	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
ethylbenzene and xylene			occo ppin	1 Houro
4-methylpentan-2-one	LD50 Intraperitoneal	Guinea pig	800 mg/kg	_
	LD50 Intraperitoneal	Mouse	268 mg/kg	_
	LD50 Intraperitoneal	Rat	400 mg/kg	_
	LD50 Oral	Guinea pig	1600 mg/kg	_
	LD50 Oral	Mouse	1900 mg/kg	-
	LD50 Oral	Mouse	2850 mg/kg	
	LD50 Oral	Rat	2080 mg/kg	
	LD50 Oral	Rat	4600 mg/kg	-
ethyl acetate	LC50 Inhalation Gas.	Rat	1600 ppm	- 8 hours
	LC50 Inhalation Vapor	Mouse	45 g/m ³	2 hours
	LD50 Intraperitoneal	Mouse	709 mg/kg	-
	LD50 Oral	Guinea pig	5.5 g/kg	-
	LD50 Oral	Guinea pig	5500 mg/kg	-
	LD50 Oral	Mouse	4.1 g/kg	-
	LD50 Oral	Mouse		-
		Rabbit	4100 mg/kg	-
	LD50 Oral		4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
A second site of a second site of a second	LD50 Subcutaneous	Guinea pig	3 g/kg	-
4-morpholinecarbaldehyde	LD50 Oral	Rat	6500 uL/kg	-
methyl methacrylate	LC50 Inhalation Vapor	Mouse	18500 mg/m ³	2 hours
	LC50 Inhalation Vapor	Rat	78000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Intraperitoneal	Guinea pig	1890 mg/kg	-
	LD50 Intraperitoneal	Mouse	945 mg/kg	-
	LD50 Intraperitoneal	Rat	1328 mg/kg	-
	LD50 Oral	Guinea pig	5954 mg/kg	-
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SECTION 11: Toxicological information

	LD50 Oral	Mouse	3625 mg/kg	-
	LD50 Oral	Rabbit	8700 mg/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
	LD50 Subcutaneous	Guinea pig	5954 mg/kg	-
	LD50 Subcutaneous	Mouse	5954 mg/kg	-
	LD50 Subcutaneous	Rat	7088 mg/kg	-
isopropyl acetate	LC50 Inhalation Vapor	Rat	50600 mg/m ³	8 hours
	LD50 Oral	Rabbit	6946 mg/kg	-
	LD50 Oral	Rat	6750 mg/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50 Intraperitoneal	Guinea pig	930 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Oral	Mouse	1400 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uL/kg	-
	LD50 Subcutaneous	Rat	2170 mg/kg	-
cumene	LC50 Inhalation Vapor	Mouse	15300 mg/m ³	2 hours
	LC50 Inhalation Vapor	Mouse	10 g/m³	7 hours
	LC50 Inhalation Vapor	Mouse	10000 mg/m ³	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12300 uL/kg	-
	LD50 Oral	Mouse	12750 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-
	LD50 Oral	Rat	1400 mg/kg	

Conclusion/Summary

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	
Reaction mass of	Eyes - Mild irritant	Rabbit	-	87 mg	-
ethylbenzene and xylene					
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
isopropyl acetate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
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SECTION 11: Toxicological information

	Eyes - Mild irritant Skin - Mild irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit	- -	mg 86 mg 24 hours 10 mg 24 hours 100 mg	- -
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summany	 Not available 				

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
2-ethoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
ethyl acetate	Category 3	-	Narcotic effects
methyl methacrylate	Category 3	-	Respiratory tract irritation
isopropyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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SECTION 11: Toxicological information

=	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
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 dryness cracking
Ingestion	: No specific data.

Delayed and immediate effects 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.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	fects
Not available.	
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.



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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposur
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
Reaction mass of	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene and xylene	Acute 2000 10400 µg/11 tesh water		So nours
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish Dimonhalos promolas	96 hours
+-metrypentan-2-one		Fish - Pimephales promelas	
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 μg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas -	33 days
		Embryo	
ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
•	Acute LC50 1600000 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 175000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 560000 µg/l Fresh water	Daphnia - Daphnia cuculiata Daphnia - Daphnia magna	48 hours
			48 hours
	Acute LC50 230000 µg/l Fresh water	Daphnia - Daphnia pulex	
	Acute LC50 295000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 230000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Acute LC50 484000 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
		Fish - Pimephales promelas -	
	Chronic NOEC 75.6 mg/l Fresh water		32 days
		Embryo	
methyl methacrylate	Acute LC50 191000 μg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 159100 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 160200 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 150000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
	13	Adult	
	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
	Acute 2000 100000 µg/11 tesh water	Adult	50 nours
appropul apotato	Acute LC50 110 mg/l Marine water	Crustaceans - Artemia salina	48 hours
sopropyl acetate			
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas	72 hours
		reinhardtii - Exponential growth	
		phase	
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	1
	Acute EC50 7.4 mg/l Marine water	Crustaceans - Artemia sp	48 hours
		Nauplii	
	Acute EC50 7.5 mg/l Marine water		48 hours
	Acute EC50 7.5 mg/l Marine water	Crustaceans - Artemia sp	40 HOUIS
		Nauplii	40.1
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
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	Neonate	
Acute EC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 7.4 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
Acute LC50 8 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
Acute LC50 20.3 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 20.3 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 6320 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 5100 µg/l Fresh water	Fish - Poecilia reticulata	96 hours
Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
2-methoxy-1-methylethyl acetate	1.2	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
2-ethoxy-1-methylethyl acetate	0.76	-	low
4-methylpentan-2-one	1.9	-	low
ethyl acetate	0.68	30	low
4-morpholinecarbaldehyde	-	<1.9	low
methyl methacrylate	1.38	-	low
isopropyl acetate	1.3	-	low
cyclohexanone	0.86	-	low
cumene	3.55	35.48	low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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 revisio	n
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	 The classification of the product may meet the chiena for a hazardous waste. Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may longer apply and the appropriate code should be assigned. For further information, contact your local waste authority. 	

European waste catalogue (EWC)

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

Waste code	Waste designation	
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
Disposal considerations	: 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		
14.5 Environmental hazards	No.	No.	No.

Additional information

SECTION 14: Transpo	ort information
ADR/RID	: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. <u>Tunnel code</u> (D/E)
IMDG	: <u>Emergency schedules</u> F-E, _S-E_ <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
14.6 Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	: Not applicable.
SECTION 15: Regulat	tory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex	XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other EU regulations** VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information. VOC for Ready-for-Use : Not applicable. Mixture Industrial emissions : Not listed (integrated pollution prevention and control) -Air Industrial emissions : Not listed (integrated pollution

prevention and control) -Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive. Danger criteria



SECTION 15: Regulatory information

	Category
	P5c

National regulations

<u>Halloniai rogalationo</u>					
Industrial use	:	The information contained in this safety data sheet doe own assessment of workplace risks, as required by oth legislation. The provisions of the national health and sa to the use of this product at work.	ner health and safety		
Social Security Code, Articles L 461-1 to L 461-7		n-butyl acetate Reaction mass of ethylbenzene and xylene 4-methylpentan-2-one ethyl acetate methyl methacrylate isopropyl acetate cyclohexanone cumene	RG 84 RG 4bis, RG 84 RG 84 RG 84 RG 82 RG 84 RG 84 RG 84 RG 84		
Reinforced medical surveillance	:	Decree n ° 2012-135 of January 30, 2012 relating to the occupational medicine: not applicable	e organization of		
International regulations					
Chemical Weapon Conventi	ion	List Schedules I, II & III Chemicals			
Not listed.					
<u>Montreal Protocol</u>					
Not listed.					
Stockholm Convention on Persistent Organic Pollutants					
Not listed.					
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.					
UNECE Aarhus Protocol on	РС	DPs and Heavy Metals			
Not listed.					
Inventory list					
Europe		Not determined.			
-0.000	•				
15.2 Chemical Safety Assessment	:	No Chemical Safety Assessment has been carried out			
SECTION 16: Other information					
Indicates information that has changed from previously issued version.					
Abbreviations and : ATE =		ATE = Acute Toxicity Estimate			
acronyms		CLP = Classification, Labelling and Packaging Regular 1272/2008] DMEL = Derived Minimal Effect Level	tion [Regulation (EC) No.		

EUH statement = CLP-specific Hazard statement

vPvB = Very Persistent and Very Bioaccumulative

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

DNEL = Derived No Effect Level

N/A = Not available

SGG = Segregation Group

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

FRS-40 SEMI-GLOSS BASE BLACK METAL FR30070/9530							
SECTION 16: Other information							
Classific	ation Justification						
Flam. Liq. 3, H226	On basis of test data						
Eye Irrit. 2, H319	Calculation method						
Skin Sens. 1, H317	Calculation method						
Carc. 2, H351 STOT SE 3, H336	Calculation method						
Aquatic Chronic 3, H412	Calculation method Calculation method						
Full text of abbreviated H statement							
H225	Highly flammable liquid and vapor.						
H226	Flammable liquid and vapor.						
H304	May be fatal if swallowed and enters airways.						
H312 H315	Harmful in contact with skin. Causes skin irritation.						
H315 H317	May cause an allergic skin reaction.						
H319	Causes serious eye irritation.						
H332	Harmful if inhaled.						
H335	May cause respiratory irritation.						
H336	May cause drowsiness or dizziness.						
H351	Suspected of causing cancer.						
H361f	Suspected of damaging fertility.						
H373	May cause damage to organs through prolonged or repeated						
	exposure.						
H400	Very toxic to aquatic life.						
H410	Very toxic to aquatic life with long lasting effects.						
H411	Toxic to aquatic life with long lasting effects.						
H412	Harmful to aquatic life with long lasting effects.						
EUH066	Repeated exposure may cause skin dryness or cracking.						
Full text of classifications [CLP/GHS]							
Acute Tox. 4	ACUTE TOXICITY - Category 4						
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1						
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1						
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2						
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3						
Asp. Tox. 1	ASPIRATION HAZARD - Category 1						
Carc. 2	CARCINOGENICITY - Category 2						
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2						
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2						
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3						
Repr. 2	TOXIC TO REPRODUCTION - Category 2						
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2						
Skin Sens. 1	SKIN SENSITIZATION - Category 1						
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A						
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2						
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -						
	Category 3						

Date of printing	: 1 October 2022
Date of issue/ Date of revision	: 1 October 2022
Date of previous issue	: No previous validation
Version	: 1
Unique ID	:
Notice to reader	



SECTION 16: Other information

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

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