

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 ALUMINIUM RAL 9007

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

Product name SDS code : FRS-40 SEMI-GLOSS BASE ALUMINIUM RAL 9007 : 40909007B

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

Identified uses		
Paint. Professional use Industrial use		
Uses advised against		
All other uses		
Product use	: 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

1.4 Emergency telephone number

responsible for this SDS

National advisory body/Poison Center				
Telephone number	: +44 (0)344 892 0111			
<u>Supplier</u>				
Telephone number	: +33 (0)5 34 01 34 01			
	+33 (0)5 61 60 23 30			
Hours of operation	:			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT RE 2, H373

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

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

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SECTION 2: Hazards identification

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

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2.2 Label elements

Hazard pictograms



		• • •
Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
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. Do not breathe vapor. Wash hands thoroughly after handling.
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 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 Reaction mass of ethylbenzene and xylene 4-methylpentan-2-one
Supplemental label elements	:	Contains methyl methacrylate and 4-morpholinecarbaldehyde. 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	nen	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 not result in classification	:	None known.
Date of issue/Date of revision		: 1-10-2022 Version : 1



SECTION 3: Composition/information on ingredients

Nubuly acetate REACH #: 01-2119485493-29 EC: 204-685-1 CAS: 123-86-4 Index: 607-025-00-1 REACH #: 01-211948216-32 EC: 204-685-1 CAS: 123-86-4 Index: 607-025-00-1 REACH #: 01-211948216-32 EC: 205-588-0 Flam. Liq. 3, H226 STOT SE 3, H336 [11][2] Acute Tox. 4, H332 Skin Init. 2, H315 Eye Init. 2, H316 STOT SE 3, H336 2-methoxy-1-methylethyl acetate REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 EC: 203-605-1 CAS: 108-65-6 EC: 203-650-1 CAS: 108-65-6 EC: 203-650-1 CAS: 108-66-7 CAS: 108-65-6 EC: 203-650-1 CAS: 108-65-6 EC: 203-650-1 CAS: 108-65-6 EC: 203-650-1 CAS: 108-65-6 EC: 203-650-1 CAS: 108-65-6 EC: 203-650-1 CAS: 108-65-7 CAS: 108-65-7 CAS: 108-65-7 CAS: 1042-449-9 Index: 649-327-00-6 REACH #: 01-2119463258-135 EC: 919-667-5 CAS: 128601-23-0 Asp. Tox. 1, H304 Aquate Chronic 2, H411 Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 [1] 411 Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquate Chronic 2, H411 [1] 411 Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquate Chronic 2, H411 [1] 50.3 Skin Sens. 1, H317 Stor SE 3, H336 Asp. Tox. 1, H304 Aquate Chronic 2, H411 [1] 51.2 Stor SE 3, H336 Asp. Tox. 1, H304 Aquate Chronic 2, H411 [1] 52.3 Skin Sens. 1, H317 Stor SE 3, H336 Asp. Tox. 1, H304 Aquate Chronic 2, H4	Product/ingredient name	Identifiers	%	Regulation (EC) No.	Туре
Ot-2119485493-29 EC: 204-656-1 CAS: 123-86-4 Index: 607-025-00-1 01-2119482216-32 EC: 905-588-0 STOT SE 3, H336 EUH066 III[2] Acute Tox 4, H312 Acute Tox 4, H322 BC: 905-588-0 2-methoxy-1-methylethyl acetate P-methylpentan-2-one REACH #: 01-2119475791-29 EC: 203-550-1 CAS: 108-65-6 EC: 203-550-1 CAS: 108-10-1 Index: 607-004-00-4 ≥10 - ≤25 Flam. Liq 3, H226 Flam. Liq 3, H226 Flam. Liq 3, H336 EUH066 [1] [2] Acute Tox 4, H332 EVENTUE 2, H336 FTOT SE 3, H336 EUH066 Naphtha (petroleum), hydrotreated reavy REACH #: 01-211948665-160-3 CAS: 128601-23-0 REACH #: 01-211945285-160-3 CAS: 128601-23-0 REACH #: 01-211945285-135 EC: 91-666-5 CAS: 128601-23-0 REACH #: 01-2119452858-3 CAS: 128601-23-0 Acute Torx 4, H332 FC: 919-667-5 CAS: 128601-23-0 Acute Torx 1, H304 EUH066 III EUH066 Flam. Liq 3, H226 Flam. Lig 3, H335 Flam. Flam. Lig 3, H335 Flam. Flam. Liq 3,				1272/2008 [CLP]	
Reaction mass of ethylbenzene and xylene REACH #: 01-2119486216-32 EC: 905-588-0 ≥10 - <20 Flam. Lic, 3, H226 Acute Tox, 4, H312 Skin Imit, 2, H315 Eyel, M316 Eyel, M3	n-butyl acetate	01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥25 - ≤50	STOT SE 3, H336	[1] [2]
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32	≥10 - <20	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,	[1] [2]
I-methylpentan-2-oneEC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4 ≤ 5 Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066[1] [2] Acute Tox. 4, H332Naphtha (petroleum), hydrotreated neavyREACH #: 01-2119468659-16 EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6 REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0<1	2-methoxy-1-methylethyl acetate	01-2119475791-29 EC: 203-603-9	≥10 - ≤25	Flam. Liq. 3, H226	[1] [2]
Naphtha (petroleum), hydrotreated heavyREACH $#$: 01-2119486659-16 EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6 REACH $#$: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0<1Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066[1]4 $119455851-35$ EC: 918-668-5 CAS: 128601-23-0<1	4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1	≤5	Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336	[1] [2]
aromatic hydrocarbons, C9REACH $#$: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0<1Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066[1]+ydrocarbons, C9-C11, n-alkanes, soalkanes, cyclics, <2% aromatics	Naphtha (petroleum), hydrotreated heavy	01-2119486659-16 EC: 265-150-3 CAS: 64742-48-9	<1	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304	[1]
Hydrocarbons, C9-C11, n-alkanes, soalkanes, cyclics, <2% aromaticsREACH #: 01-2119463258-33 EC: 919-857-5<1Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066[1]methyl methacrylateREACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6 EC: 224-518-3 COS<1	aromatic hydrocarbons, C9	REACH #: 01-2119455851-35 EC: 918-668-5	<1	STOT SÉ 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
methyl methacrylateREACH #: 01-2119452498-28 EC: 201-297-1 CAS: $80-62-6$ Index: $607-035-00-6$ EC: $224-518-3$ CAS: $4394-85-8$ REACH #: arom.<1Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 Stor SE 3, H335[1] [2]4-morpholinecarbaldehydeEC: $224-518-3$ CAS: $4394-85-8$ REACH #: 01-2119455851-35 EC: $265-199-0$ CAS: $64742-95-6$ <0.3	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	01-2119463258-33	<1	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304	[1]
4-morpholinecarbaldehydeEC: 224-518-3 CAS: 4394-85-8 REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 ≤ 0.3 Skin Sens. 1, H317[1]Solvent naphtha (petroleum), light arom.REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 ≤ 0.3 Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 Flam. Liq. 3, H226 I = 0.1[1]	methyl methacrylate	01-2119452498-28 EC: 201-297-1 CAS: 80-62-6	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317	[1] [2]
Solvent naphtha (petroleum), light arom. REACH #: ≤0.3 Flam. Liq. 3, H226 [1] STOT SE 3, H335 EC: 265-199-0 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 cyclohexanone REACH #: ≤0.1 Flam. Liq. 3, H226 [1]	4-morpholinecarbaldehyde		≤0.3	Skin Sens. 1, H317	[1]
Cyclohexanone REACH #: ≤0.1 Flam. Liq. 3, H226 [1] [2] 01-2119453616-35 Acute Tox. 4, H332 [1] [2]	Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0	≤0.3	STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
ate of issue/Date of revision : 1-10-2022 Version : 1	cyclohexanone		≤0.1	Flam. Liq. 3, H226	[1] [2]
ate of previous issue : No previous validation 3/21 AkzoNobe					

SECTION 3: Composition/information on ingredients				
cumene	EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7 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.

Type

[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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

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 methyl methacrylate, 4-morpholinecarbaldehyde. 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
Ingestion	: 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	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	 Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

SECTION 5: Firefighting measures

5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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).
6.3 Methods and materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

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	: See Section 1 for emergency contact information.
sections	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



SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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 breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

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

7.3 Specific end use(s)

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

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	t name	Exposure limit values			
n-butyl acetate Reaction mass of ethylbenzen	e and xylene	STEL: 966 STEL: 200 TWA: 724 TWA: 150 EH40/2005 through ski STEL: 441 STEL: 100 TWA: 220	WELs (United Kingdom (UK), mg/m ³ 15 minutes. ppm 15 minutes. mg/m ³ 8 hours. ppm 8 hours. WELs (United Kingdom (UK), mg/m ³ 15 minutes. ppm 15 minutes. mg/m ³ 8 hours. pm 8 hours.		
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2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
4-methylpentan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
cyclohexanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 20 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
	STEL: 82 mg/m ³ 15 minutes.
	TWA: 41 mg/m ³ 8 hours.
cumene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 250 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 125 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.

procedures

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

DNELs/DMELs

Product/ingredient na	me Type	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m ³	General population	Local
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Local
te of issue/Date of revision	: 1-10-2022	l	Version	:1	
te of previous issue	: No previous va	alidation	8/21		AkzoNobel

ECTION 8: Exposure cor		-			1
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	m ³	population	Quartanaia
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m ³	population	1
	DNEL	Short term	960 mg/m ³	Workers	Local
		Inhalation	000 / 3		0
	DNEL	Short term	960 mg/m ³	Workers	Systemic
		Inhalation	4.0		0
Reaction mass of ethylbenzene and	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
xylene		1	bw/day	population	Ot.a
	DNEL	Long term	14.8 mg/m ³		Systemic
		Inhalation	77	population	Ot.a
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation	100	0	Ot.a
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
			bw/day	population	0
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		0	bw/day		1
	DNEL	Short term	289 mg/m ³	Workers	Local
		Inhalation	000		Our training
	DNEL	Short term	289 mg/m ³	Workers	Systemic
		Inhalation	4.0	Comost	Ct.
4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	11.8 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	14.7 mg/m ³		Local
		Inhalation		population	
	DNEL	Long term	14.7 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term	83 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	155.2 mg/	General	Local
		Inhalation	m ³	population	
	DNEL	Short term	155.2 mg/	General	Systemic
		Inhalation	m ³	population	
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	208 mg/m ³	Workers	Systemic
		Inhalation			
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
		1	kg bw/day	Orman	0
	DNEL	Long term	74.3 mg/m ³		Systemic
		Inhalation	101 1 2	population	
	DNEL	Long term	104 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	208 mg/m ³	Workers	Systemic
		Inhalation			
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	14 mg/kg	Workers	Systemic
			bw/day		
fieren (Dete - free deter	1	!	1	۱ ۰ ۹	!
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	DNEL	Long term	29 mg/m ³	General	Systemic
		Inhalation	_=	population	- jetenne
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	eeg,		- ,
cyclohexanone	DNEL	Short term Dermal	1 mg/kg	General	Systemic
y			bw/day	population	,
	DNEL	Long term Dermal	1 mg/kg	General	Systemic
		U U	bw/day	population	,
	DNEL	Short term Oral	1.5 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	4 mg/kg	Workers	Systemic
			bw/day		-
	DNEL	Long term Dermal	4 mg/kg	Workers	Systemic
			bw/day		-
	DNEL	Long term	10 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	20 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	20 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term	40 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	40 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	40 mg/m³	Workers	Systemic
	DNE	Inhalation	00 1 3		1 1
	DNEL	Short term	80 mg/m ³	Workers	Local
		Inhalation	00 ma m/ma 3		Curtania
	DNEL	Short term	80 mg/m³	Workers	Systemic
aumana	DNEL	Inhalation	1.2 mg/kg	Conorol	Svotomio
cumene	DNEL	Long term Dermal	1.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg	General	Systemic
	DINEL	Long term Oral	bw/day	population	Systemic
	DNEL	Long term Dermal	15.4 mg/	Workers	Systemic
	DINLL	Long term Derma	kg bw/day	VIOREIS	Systemic
	DNEL	Long term	16.6 mg/m ³	General	Systemic
		Inhalation	10.0 mg/m	population	Cysternic
	DNEL	Long term	100 mg/m ³	Workers	Systemic
		Inhalation	100 mg/m		Cysternic
	DNEL	Short term	250 mg/m ³	Workers	Local

PNECs

No PNECs available.

8.2 Exposure controls Appropriate engineering controls	contaminants below any reco controls also need to keep ga	lation. Use process enclosur ng controls to keep worker ex ommended or statutory limits. as, vapor or dust concentratic on-proof ventilation equipmer	posure to airborne The engineering ons below any lower
Individual protection meas	ures		
Hygiene measures	Appropriate techniques shou	using the lavatory and at the e Id be used to remove potentia before reusing. Ensure that	end of the working period. ally contaminated clothing.
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SECTION 8: Exposure controls/personal protection						
Eye/face protection	assessment indicates this is necessary to avoid exposure to liquid splashes, m gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splas 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.				
		The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.				
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.				
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.				
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.				
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Gray.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.

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SECTION 9: Physical and chemical properties

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: 4.03 (Air = 1)
Density	:	0.992 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): 11.09 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 ethylbenzene and xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
4-methylpentan-2-one	LD50 Intraperitoneal	Guinea pig	800 mg/kg	-
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LD50 Intraperitoneal	Mouse	268 mg/kg	-				
LD50 Intraperitoneal	Rat	400 mg/kg	-				
LD50 Oral			-				
			-				
			-				
			-				
			-				
			2 hours				
			4 hours				
•			-				
			-				
			-				
			_				
			_				
		3625 ma/ka					
			-				
			-				
		0 0	-				
			-				
			- 1 hours				
LCOU INNAIALION VAPOR		0000 mg/m²	4 hours				
LD50 Oral	Rat	>6 g/kg	-				
LD50 Oral	Rat	6500 uL/kg	-				
LD50 Oral	Rat		-				
LC50 Inhalation Gas.	Rat	8000 ppm	4 hours				
	Rabbit		-				
			-				
			-				
			-				
			-				
			_				
		1130 mg/kg	_				
			_				
			-				
			-				
			-				
			- 2 hours				
			7 hours				
			7 hours				
			4 hours				
			-				
LD50 Oral	Mouse	12750 mg/kg	-				
		00 //					
LD50 Oral LD50 Oral	Rat Rat	2.9 g/kg 1400 mg/kg	-				
	LD50 Intraperitoneal LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LD50 Subcutaneous LD50 Subcutaneous LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Intraperitoneal LD50 Int	LD50IntraperitonealMouseLD50IntraperitonealRatLD50OralGuinea pigLD50OralMouseLD50OralRatLD50OralRatLD50OralRatLD50OralRatLD50OralRatLD50Inhalation VaporRatLD50IntraperitonealGuinea pigLD50IntraperitonealMouseLD50IntraperitonealMouseLD50IntraperitonealRatLD50OralGuinea pigLD50OralRatLD50OralRatLD50OralRatLD50OralRatLD50SubcutaneousGuinea pigLD50SubcutaneousRatLD50SubcutaneousRatLD50OralRatLD50OralRatLD50OralRatLD50OralRatLD50OralRatLD50OralRatLD50IntraperitonealMouseLD50IntraperitonealMouseLD50IntraperitonealMouseLD50IntraperitonealRatLD50IntraperitonealRatLD50IntraperitonealRatLD50IntraperitonealRatLD50IntraperitonealRatLD50IntraperitonealRatLD50IntraperitonealRat <td>LD50Intraperitoneal LD50Mouse268mg/kgLD50OralGuinea pig1600 mg/kgLD50OralMouse1900 mg/kgLD50OralMouse2850 mg/kgLD50OralRat2080 mg/kgLD50OralRat2080 mg/kgLD50OralRat4600 mg/kgLD50OralRat78000 mg/m3LC50Inhalation VaporRat78000 mg/m3LD50DermalRabbit>5 g/kgLD50IntraperitonealGuinea pig1890 mg/kgLD50IntraperitonealMouse945 mg/kgLD50IntraperitonealRat1328 mg/kgLD50OralGuinea pig5954 mg/kgLD50OralRabbit8700 mg/kgLD50OralRat7872 mg/kgLD50SubcutaneousGuinea pig5954 mg/kgLD50SubcutaneousRat7088 mg/kgLD50SubcutaneousRat8500 mg/m3LD50OralRat8600 ppmLD50OralRat8400 mg/kgLD50OralRat8400 mg/kgLD50OralRat11 mL/kgLD50IntraperitonealMouse1230 mg/kgLD50IntraperitonealRabbit1 mL/kgLD50IntraperitonealRabbit1 mL/kgLD50IntraperitonealRabbit1300 mg/kgLD50IntraperitonealRabbit1540 mg/kg</td>	LD50Intraperitoneal LD50Mouse268mg/kgLD50OralGuinea pig1600 mg/kgLD50OralMouse1900 mg/kgLD50OralMouse2850 mg/kgLD50OralRat2080 mg/kgLD50OralRat2080 mg/kgLD50OralRat4600 mg/kgLD50OralRat78000 mg/m3LC50Inhalation VaporRat78000 mg/m3LD50DermalRabbit>5 g/kgLD50IntraperitonealGuinea pig1890 mg/kgLD50IntraperitonealMouse945 mg/kgLD50IntraperitonealRat1328 mg/kgLD50OralGuinea pig5954 mg/kgLD50OralRabbit8700 mg/kgLD50OralRat7872 mg/kgLD50SubcutaneousGuinea pig5954 mg/kgLD50SubcutaneousRat7088 mg/kgLD50SubcutaneousRat8500 mg/m3LD50OralRat8600 ppmLD50OralRat8400 mg/kgLD50OralRat8400 mg/kgLD50OralRat11 mL/kgLD50IntraperitonealMouse1230 mg/kgLD50IntraperitonealRabbit1 mL/kgLD50IntraperitonealRabbit1 mL/kgLD50IntraperitonealRabbit1300 mg/kgLD50IntraperitonealRabbit1540 mg/kg				

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
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	
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	Skin - Moderate irritant	Rabbit	-	100 %	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100 Ul	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
Solvent naphtha (petroleum), light arom.	Eyes - Mild irritant	Rabbit	-	mg 24 hours 100 Ul	-
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 mg	-
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
	Skin - Moderate irritant	Rabbit	-	mg 24 hours 100 mg	-
Conclusion/Summary	: Not available.		•		
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				

Conclusion/Summary : Not available.

Teratogenicity

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
aromatic hydrocarbons, C9	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects
methyl methacrylate	Category 3	-	Respiratory tract irritation
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Narcotic effects
Solvent näphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)



SECTION 11: Toxicological information

5			
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 aromatic hydrocarbons, C9	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available.

routes of exposure

Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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
Ingestion	: No specific data.

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

Short torm oxposure				••••••••••••••••••••••••••••••••••••••	
Short term exposure Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			
Long term exposure					
Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			
Potential chronic health eff	ects	<u>6</u>			
Not available.					
Conclusion/Summary	:	Not available.			
General	:	May cause damage to orga	ns through prolon	ged or repeated e	xposure.
Dete of increase (Dete of multiple a			Manaia		
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SECTION 11: Toxicological information		
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 not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Acute LC50 100000 µg/l Fresh water Fish - Lepomis macrochirus 96 hours Reaction mass of ethylbenzene and xylene Acute LC50 13000 µg/l Fresh water Fish - Menidia berylina 96 hours 4-methylpentan-2-one Acute LC50 505000 µg/l Fresh water Fish - Pimephales promelas 96 hours 4-methylpentan-2-one Acute LC50 505000 µg/l Fresh water Fish - Pimephales promelas 96 hours 4-methylpentan-2-one Acute LC50 134000 µg/l Fresh water Fish - Pimephales promelas 96 hours 4-methylpentan-2-one Acute LC50 10000 µg/l Fresh water Fish - Pimephales promelas 96 hours 4-methylpentan-2-one Acute LC50 191000 µg/l Fresh water Fish - Pimephales promelas 96 hours methyl methacrylate Acute LC50 191000 µg/l Fresh water Fish - Pimephales promelas 96 hours Matter Acute LC50 191000 µg/l Fresh water Fish - Pimephales promelas 96 hours Acute LC50 130000 µg/l Fresh water Fish - Pimephales promelas 96 hours Acute LC50 130000 µg/l Fresh water Fish - Pimephales promelas 96 hours Acute LC50 130000 µg/l Fresh water Fish - Pimephales promelas 96 hours Acute LC50 32000 µg/l Fresh water Fish - Pimephales promelas 96 hours	Product/ingredient name	Result	Species	Exposure
Acute LC50 18000 µg/l Fresh water Acute LC50 185000 µg/l Fresh water Acute LC50 13400 µg/l Fresh water Acute LC50 505000 µg/l Fresh water 	n-butyl acetate			48 hours
Reaction mass of ethylbenzene and xyleneAcute LC50 165000 µg/l Fresh water Acute LC50 13400 µg/l Fresh water Acute LC50 55000 µg/l Fresh waterFish - Pimephales promelas Fish - Pimephales promelas - Bish - Pimephales promelas - Bish - Pimephales promelas - Bish - Pimephales promelas - Uwenlie (Fledgling, Hatchling, Weanling) Daphnia - Daphnia magna Fish - Pimephales promelas - Bohours96 hours 96 hours 96 hoursmethyl methacrylateAcute LC50 191000 µg/l Fresh water Chronic NOEC 168 mg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 159100 µg/l Fresh water Acute LC50 159100 µg/l Fresh water Acute LC50 159100 µg/l Fresh water Acute LC50 159000 µg/l Fresh water Acute LC50 130000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 527000 µg/l Fresh water Acute EC50 7.5 mg/l Marine water Acute EC50 10.6 mg/l Fresh water Acute EC50 11.2 mg/l Fresh water Acute LC50 11.2 mg/l Fresh water Acute LC50 11.2 mg/l Fresh water Acute LC50 11.2 mg/l Fresh waterFish - Pimephales promelas Fish - Pimephales promelas Fi			Fish - Lepomis macrochirus	96 hours
Reaction mass of ethylbenzene and xylene 4-methylpentan-2-one Acute LC50 13400 µg/l Fresh water Acute LC50 55000 µg/l Fresh water Acute LC50 55000 µg/l Fresh water Acute LC50 55000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 159100 µg/l Fresh water Acute LC50 159000 µg/l Fresh water Acute LC50 159000 µg/l Fresh water Acute LC50 159000 µg/l Fresh water Acute LC50 150000 µg/l Fresh water Acute LC50 150000 µg/l Fresh water Acute LC50 32.9 mg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 7372000 µg/l Fresh water Acute LC50 7372000 µg/l Fresh water Acute LC50 7372000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 7372000 µg/l Fresh water Acute EC50 10.6 mg/l Fresh water Acute EC50 10.6 mg/l Fresh water Acute EC50 10.6 mg/l Fresh water Acute EC50 11.2 mg/l Fresh water Acute LC50 7.4 mg/l Marine water Acute LC50 7.4 mg/l Marine water Acute LC50 7.4 mg/l Marine water Acute LC50 11.2 mg/l Fresh water Acute LC50 7.4 mg/l Marine water Acute LC50		Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Reaction mass of ethylbenzene and xylene 4-methylpentan-2-oneAcute LC50 13400 µg/l Fresh water Acute LC50 505000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 10000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 630000 µg/l Fresh water Acute LC50 72000 µg/l Fresh water Acute EC50 7.5 mg/l Marine water Acute EC50 7.5 mg/l Marine water Acute EC50 10.6 mg/l Fresh water Acute EC50 10.6 mg/l Fres		Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
ethylbenzene and xylene 4-methylpentan-2-oneAcute LC50 505000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water Acute LC50 191000 µg/l Fresh water 		Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
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SECTION 12: Ecological information

	Nauplii	
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 Acute LC50 2700 µg/l Fresh water	Fish - Poecilia reticulata Fish - Oncorhynchus mykiss	96 hours 96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl acetate	1.2	-	low
4-methylpentan-2-one	1.9	-	low
methyl methacrylate	1.38	-	low
Naphtha (petroleum), hydrotreated heavy	-	10 to 2500	high
4-morpholinecarbaldehyde	-	<1.9	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			C
cyclohexanone	0.86	-	low
cumene	3.55	35.48	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 nonrecyclable 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.

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SECTION 13: Disposal considerations Hazardous waste Disposal considerations : The classification of the product may meet the criteria 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 no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

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

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	 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
UN1263	UN1263	UN1263
PAINT	PAINT	PAINT
3	3	3
	111	
No.	No.	No.
	UN1263 PAINT 3 III	UN1263 PAINT 3 Constant 3 Constant 3 Constant 3 Constant 3 Constant 111 111 111 111 111 111 111 1

Additional 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.



SECTION 14: Transport information			
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	ory information		
-	nmental regulations/legislation specific for the substance or mixture		
EU Regulation (EC) No. 1907	/2006 (REACH)		
<u> Annex XIV - List of substan</u>	ces subject to authorization		
<u>Annex XIV</u>			
None of the components are			
<u>Substances of very high c</u>			
None of the components are			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Other EU regulations			
VOC	: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.		
VOC for Ready-for-Use Mixture	: Not applicable.		
Industrial emissions (integrated pollution prevention and control) - Air	: Listed		
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed		
Ozone depleting substance	<u>s (1005/2009/EU)</u>		
Not listed.			
Prior Informed Consent (Pl	<u>C) (649/2012/EU)</u>		

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

ſ	Category
	P5c

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.
International regulations	

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SECTION 15: Regulatory information			
Chemical Weapon Convention List Schedules I, II & III Chemicals			
Not listed.			
Montreal Protocol			
Not listed.	Not listed.		
Stockholm Convention o	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 Assessment	: No Chemical Safety Assessment has been carried out.		

SECTION 16: Other information

Indicates information 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 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
	VPVB = very Persistent and very bloaccumulative

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

H336 H351 H373	May caus Suspecte May caus exposure		onged or repeated
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SECTION 16: Other	information	
H411 H412 EUH066		Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	
Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 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 vali	dation
Version	: 1	
Unique ID	:	
Notice to reader		

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