

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 CHAMPAGNE METAL 8656

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

Product name SDS code

: FRS-40 SEMI-GLOSS BASE CHAMPAGNE METAL 8656 : 40928656B

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			
: +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.

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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 Hydroxyphenyl-benzotriazole derivatives Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 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	ner	<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.

 Other 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	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
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]
aromatic hydrocarbons, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≤2	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
isopropyl acetate	REACH #: 01-2119537214-46 EC: 203-561-1 CAS: 108-21-4 Index: 607-024-00-6	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 919-446-0	<1	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372	[1]
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SECTION 3: Compositio	n/information on ir	ngredients		
			(inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	
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]
Hydroxyphenyl-benzotriazole derivatives	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
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, H410 (M=1)	[1]
Polymeric Benzotriazole	CAS: 104810-47-1	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
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		plenty of water, occasionally liftin we any contact lenses. Continue ion.	
Inhalation	If it is suspected that fumes a mask or self-contained breat or if respiratory arrest occurs personnel. It may be danger resuscitation. Get medical a If unconscious, place in reco	: Remove victim to fresh air and keep at rest in a position comfortable for bread If it is suspected that fumes are still present, the rescuer should wear an appr mask or self-contained breathing apparatus. If not breathing, if breathing is in 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- resuscitation. Get medical attention. If necessary, call a poison center or phy If unconscious, place in recovery position and get medical attention immediat Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or	
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SECTION 4: First aid measures 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.
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, Hydroxyphenyl-benzotriazole derivatives, Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, 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



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SECTION 4: First aid measures				
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking			
Ingestion	: No specific data.			
4.3 Indication of any immedi	iate medical attention and special treatment needed			
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.			
Specific treatments	: No specific treatment.			
SECTION 5: Firefigh	ting 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 f	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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.			
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides			
5.3 Advice for firefighters				
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident 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: Acciden				

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate surrounding entering. Do not toucl No flares, smoking or Provide adequate ven	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	information in Section	is required to deal with the spillage, take note of any 8 on suitable and unsuitable materials. See also the n-emergency personnel".		
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SECTION 6: Accidental release measures							
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.						
6.3 Methods and materials	for containment and cleaning up						
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.						
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.						
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. 						

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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

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

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

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
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 xyle	
	Notes: Binding regulatory limit values (article R. 4412-149 of
	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
othyl apotato	Ministry of Labor (France, 3/2020). Notes: Binding regulatory
ethyl acetate	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 regulatory
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
4-methylpentan-2-one	Ministry of Labor (France, 3/2020). Notes: Binding regulatory
	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
isopropyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit
1 1 5	values (circular)
	STEL: 1140 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 950 mg/m ³ 8 hours.
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methyl methacrylate	TWA: 250 ppm 8 hours. Ministry of Labor (France, 3/2020). Notes: Binding regulatory 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			
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			
procedures atmosphere or of the ventilatio protective equi the following: If the assessmen limit values and atmospheres - of exposure to (Workplace atmospheres - for the measured	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory pment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for at of exposure by inhalation to chemical agents for comparison with d measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be			

DNELs/DMELs

Product/ingredient name	Туре	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	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m³	General population	Local
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	General population	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Systemic
Reaction mass of ethylbenzene and xylene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	14.8 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic
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ECTION 8: Exposure	controls/p	ersonal prote	ction		
· · ·	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 289 mg/m³	Workers	Local
	DNEL	Inhalation Short term	289 mg/m ³	Workers	Systemic
		Inhalation	_		
2-ethoxy-1-methylethyl acetate	DNEL	Long term Oral	13.1 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	103 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	181 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	302 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	365 mg/m³	General population	Systemic
	DNEL	Short term	608 mg/m ³	Workers	Systemic
ethyl acetate	DNEL	Inhalation Long term Oral	4.5 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 37 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 63 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General population	Local
	DNEL	Short term Inhalation	734 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m ³	Workers	Systemic
4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	11.8 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14.7 mg/m ³	General population	Local
	DNEL	Long term Inhalation	14.7 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	83 mg/m³	Workers	Local
	DNEL	Long term Inhalation	83 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/ m³	General population	Local
	DNEL	Short term Inhalation	155.2 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Local
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DNEL	Short term	208 mg/m ³	Workers	Systemic
DNEL	Long term Oral		General	Systemic
		bw/day	population	
DNEL	Long term Dermal	26 mg/kg	General	Systemic
		bw/day	population	-
DNEL	Long term Dermal	43 mg/kg bw/day	Workers	Systemic
DNEL	Long term		General	Local
		Ū	population	
DNEL		252 mg/m ³		Systemic
				-,
DNEL	Long term	420 mg/m ³	Workers	Local
DNEI		420 mg/m^{3}	Workers	Systemic
		120 mg/m		Cyclonic
DNFI		510 mg/m ³	General	Systemic
		s is ing/in		C you line
DNEI		850 mg/m ³		Systemic
DIVEL		ooo mg/m	TT OIN OID	Cyclonic
DNEI		8 ma/ka	General	Systemic
DINEL	Long term oran			Gysternie
	Long term Dermal			Systemic
DINEL	Long term Derma			Gysternie
	Long term Dermal			Systemic
DINEL	Long term Derma		WOIKEIS	Oysternic
DNEI	Long term		General	Systemic
DINEL		20 mg/m		Cystonio
		98 mg/m^3		Systemic
DINEL	0	oo mg/m	Wonters	Cystonio
DNEI		8.2 ma/ka	General	Systemic
DINEL	Long torm Dorman			Cystonio
	Long term Dermal			Systemic
DINLL	Long term Dermai		VUIKEIS	Systemic
	Long torm		Conoral	Systemic
DINEL		74.5 mg/m		Systemic
		$104 m g/m^{3}$		
DINEL		104 mg/m°		Local
		208 ma/m3		
DINEL		200 mg/m	WUIKEIS	Local
		$200 m g/m^{3}$	Markora	Sustamia
DINEL		206 mg/m ²	vvorkers	Systemic
		1.0 mg/kg	Conorol	Sustamia
DINEL	Long term Derma			Systemic
	Lang tang Oral			Curatamia
DINEL	Long term Oral			Systemic
	Long torms Domest			Cysters!-
DNEL	Long term Dermal	U U	vvorkers	Systemic
DNFI	Long term		General	Systemic
	0	10.0 mg/m		C yotonno
		100 mg/m^3		Systemic
		100 mg/m		Cystonio
		250 mg/m^3	Workere	Local
		_∠oo mg/m	VUINEIS	LUCAI
	DNEL DNEL DNEL DNEL DNEL	DNELInhalation Long term OralDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation 	Inhalation26 mg/kg bw/dayDNELLong term Oral26 mg/kg bw/dayDNELLong term Dermal43 mg/kg bw/dayDNELLong term Dermal43 mg/kg bw/dayDNELLong term252 mg/m³InhalationDNELLong termDNELLong term420 mg/m³InhalationDNELLong termDNELLong term420 mg/m³InhalationDNELShort termDNELShort term510 mg/m³InhalationDNELShort termDNELShort term850 mg/m³InhalationNELLong term DermalDNELLong term Dermal8 mg/kgDNELLong term Dermal14 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal8.2 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal8.2 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal13.67 mg/kgbw/dayDNELLong termDNELLong term208 mg/m³InhalationDNELLong termDNELLong term208 mg/m³InhalationDNELLong termDNELLong term Dermal1.2 mg/kgbw/dayDNELLong termDNELLong term Dermal1.2 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal1.2 mg/kgbw/dayDNELLong term Dermal<	Inhalation Long term Oral26 mg/kg bw/dayGeneral populationDNEL DNEL Long term Dermal26 mg/kg bw/dayGeneral populationDNEL Long term Dermal43 mg/kg bw/dayWorkersDNEL Long term Inhalation252 mg/m³ Bow/dayGeneral populationDNEL Long term Inhalation252 mg/m³ Bow/dayGeneral populationDNEL Long term Inhalation252 mg/m³ Bow/dayGeneral populationDNEL Long term Inhalation420 mg/m³ WorkersWorkersDNEL Long term Inhalation510 mg/m³ Bow/dayGeneral populationDNEL Long term Inhalation510 mg/m³ Bow/dayGeneral populationDNEL Long term Oral8 mg/kg Bow/dayGeneral populationDNEL Long term Dermal8 mg/kg Bow/dayGeneral populationDNEL Long term Dermal8 mg/kg Bow/dayGeneral populationDNEL Long term Dermal8 mg/kg Bow/dayGeneral populationDNEL Long term Dermal8.2 mg/kg Bw/dayGeneral populationDNEL Long term Dermal8.2 mg/kg Bow/dayGeneral populationDNEL Long term Dermal8.2 mg/kg Bow/dayGeneral populationDNEL Long term Dermal104 mg/m³ General populationDNEL Long term Inhalation208 mg/m³ Bow/dayDNEL Long term Inhalation208 mg/m³ Bow/dayDNEL Long term Inhalation1.2 mg/kg Bow/dayDNEL Long term <br< td=""></br<>

PNECs

No PNECs available.

8.2 Exposure controls



SECTION 8: Exposu	re o	controls/persona	I protection			
Appropriate engineering controls	:	ventilation or other engin contaminants below any controls also need to ke	ventilation. Use process enc neering controls to keep work / recommended or statutory li ep gas, vapor or dust concen <plosion-proof equi<="" th="" ventilation=""><th>er exposure to airborne mits. The engineering trations below any lower</th></plosion-proof>	er exposure to airborne mits. The engineering trations below any lower		
Individual protection measu	ires					
Hygiene measures	:	before eating, smoking a Appropriate techniques Contaminated work clot	should be used to remove po hing should not be allowed ou efore reusing. Ensure that ey	the end of the working period. tentially contaminated clothing. It of the workplace. Wash		
Eye/face protection	:	assessment indicates the gases or dusts. If containing				
Skin protection						
Hand protection	:	be worn at all times whe this is necessary. Cons check during use that the should be noted that the different for different glo	en handling chemical products	glove material may be se of mixtures, consisting of		
		protection class of 6 (br recommended. Recom When only brief contact (breakthrough time >30 Recommended gloves:	uently repeated contact may eakthrough time >480 minute mended gloves: Viton \textcircled{B} or Ni is expected, a glove with pro minutes according to EN374 Nitrile, thickness \ge 0.12 mm. ced regularly and if there is ar	s according to EN374) is itrile, thickness ≥ 0.38 mm. tection class of 2 or higher		
		The performance or effective chemical damage and p	ectiveness of the glove may b oor maintenance.	e reduced by physical/		
			ropriate and takes into account	love selected for handling this nt the particular conditions of		
Body protection	:	Personal protective equipment for the body should be selected based on the ta 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 electric wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refe European Standard EN 1149 for further information on material and design requirements and test methods.				
Other skin protection	:	selected based on the ta	d any additional skin protections is a set of the set o	risks involved and should be		
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 importan aspects of use.				
Environmental exposure controls	:	ensure they comply with In some cases, fume so	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.			
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Date of previous issue		: No previous validation	12/23	AkzoNobel		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Color : Gold. Odor : Characteristic. : Not available. Odor threshold pН : Not available. Melting point/freezing point : Not available. Initial boiling point and : Not available. boiling range Flash point : Closed cup: 28°C Evaporation rate : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available. explosive limits Vapor pressure : Not available. Vapor density : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.8 (Air = 1) Density : 0.979 g/cm³ Solubility(ies) : Insoluble in the following materials: cold water. Partition coefficient: n-octanol/ : Not available. water Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. Viscosity : Kinematic (room temperature): 10.21 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.		5000 ppm	- 4 hours
	LC50 Initialation Gas.	Rat	5000 ppm	4 110015
ethylbenzene and xylene			1000	0.1
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	4100 mg/kg	-
	LD50 Oral	Rabbit	4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
	LD50 Subcutaneous	Guinea pig	3 g/kg	-
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	-
isopropyl acetate	LC50 Inhalation Vapor	Rat	50600 mg/m ³	8 hours
	LD50 Oral	Rabbit	6946 mg/kg	-
	LD50 Oral	Rat	6750 mg/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	
	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	-
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	_
	2200 Oldi	i tat	1400 mg/kg	

Conclusion/Summary Irritation/Corrosion : Not available.



SECTION 11: Toxicological information

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	Even Severe irritent	Dabbit		24 hours 5	
	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	-
		D 11 11		mg	
isopropyl acetate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit		mg 24 hours 500	
4-morpholinecarbaidenyde	Eyes - Mild Initant	Rabbit	-	mg	-
	Skin - Mild irritant	Rabbit	_	24 hours 500	-
		T GOOR		mg	
cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
Conclusion/Summary	: Not available.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
-					
Mutagenicity					
Conclusion/Summary	: Not available.				
<u>Carcinogenicity</u>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
-					
<u>Teratogenicity</u>					

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ing	redient name	Category	Route of exposure	Target organs
n-butyl acetate		Category 3	-	Narcotic effects
2-methoxy-1-methylethyl ace	tate	Category 3	-	Narcotic effects
Reaction mass of ethylbenze	ne and xylene	Category 3	-	Respiratory tract irritation
2-ethoxy-1-methylethyl aceta	te	Category 3	-	Narcotic effects
ethyl 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
isopropyl acetate		Category 3	-	Narcotic effects
Hydrocarbons, C9-C12, n-alk	anes, isoalkanes, cyclic,	Category 3	-	Narcotic effects
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SECTION 11: Toxicological information

aromatics (2-25%) methyl methacrylate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%)	Category 2 Category 1	- inhalation	-

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene aromatic hydrocarbons, C9 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%)	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects

- otoritial addite fielditi effet	
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

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.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
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SECTION 11: Toxicological information

Potential delayed effects	: Not available.
Potential chronic health effe	ects
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.

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
Reaction mass of	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene and xylene			
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 magna	48 hours
	Acute LC50 230000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	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
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas -	32 days
	- - -	Embryo	· ,
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
31	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
	10	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
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		Embryo	
sopropyl acetate	Acute LC50 110 mg/l Marine water	Crustaceans - Artemia salina	48 hours
nethyl methacrylate	Acute LC50 191000 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
, , , , , , , , , , , , , , , , , , ,	10	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
		Adult	
	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Adult	
umene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 7.4 mg/I Marine water	Crustaceans - Artemia sp	48 hours
		Nauplii	
	Acute EC50 7.5 mg/l Marine water	Crustaceans - Artemia sp	48 hours
		Nauplii	40.1
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Acute EC50 10.0 mg/l Fresh water	Neonate	40 110015
	Acute EC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Acute 2000 TT.2 mg/TTesh water	Neonate	40 110013
	Acute LC50 7.4 mg/l Marine water	Crustaceans - Artemia sp	48 hours
		Nauplii	
	Acute LC50 8 mg/l Marine water	Crustaceans - Artemia sp	48 hours
	J	Nauplii	_
	Acute LC50 20.3 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 20.3 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	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

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
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
ethyl acetate	0.68	30	low
4-methylpentan-2-one	1.9	-	low
isopropyl acetate	1.3	-	low
4-morpholinecarbaldehyde	-	<1.9	low
methyl methacrylate	1.38	-	low
cumene	3.55	35.48	low

12.4 Mobility in soil

SECTION 12: Ecological information

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

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	: Do not allow to enter drains or watercourses. 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.		



		ADR/RID	IMDG		ΙΑΤΑ
			INDG		
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					
14.5 Environmental hazards	No.		No.	No.	
Additional inform	ation		·	·	
ADR/RID IMDG		packagings up to <u>Tunnel code</u> (D : <u>Emergency sch</u> <u>Viscous liquid e</u>	exception This class 3 visco o 450 L according to 2.2.3.1. /E) edules F-E, _S-E_ exception This class 3 visco o 450 L according to 2.3.2.5.	5.1. bus liquid is not sul	
14.6 Special preca user	utions for	upright and secu	n user's premises: always are. Ensure that persons tran accident or spillage.		
14.7 Transport in a according to IMO instruments	bulk	: Not applicable.			

CTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substa	ances subject to authorization		
Annex XIV			
None of the components a	are listed.		
Substances of very high	<u>concern</u>		
None of the components a	are listed.		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Other EU regulations			
VOC		2004/42/EC on VOC apply to th al data sheet for further information and the sheet for further information and the sheet for further information and the sheet for the she	
VOC for Ready-for-Use Mixture	: Not applicable.		
Date of issue/Date of revision	: 1-10-2022	Version : 1	
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SECTION 15: Regulatory information

Industrial emissions : 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

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.		
Social Security Code, Articles L 461-1 to L 461-7	 n-butyl acetate Reaction mass of ethylbenzene and xylene ethyl acetate 4-methylpentan-2-one isopropyl acetate methyl methacrylate cumene 	RG 84 RG 4bis, RG 84 RG 84 RG 84 RG 84 RG 82 RG 84	
Reinforced medical surveillance	: Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable		
nternational regulations			
Chemical Weapon Convention	on List Schedules I, II & III Chemicals		
Not listed.			
Montreal Protocol Not listed.			
Stockholm Convention on P	ersistent Organic Pollutants		
Not listed.			
Rotterdam Convention on P Not listed.	rior Informed Consent (PIC)		
JNECE Aarhus Protocol on	POPs and Heavy Metals		
Not listed.	<u> </u>		
nventory list			
	: Not determined.		
Europe			

Date of issue/Date of revision Date of previous issue



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

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
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

T	
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.
H372	Causes damage to organs through prolonged or repeated
	exposure.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Date of previous issue	: No previous validati	ion 22/23	AkzoNobel	
Date of issue/Date of revision	: 1-10-2022	Version : 1		
Skin Sens. 1A	5	SKIN SENSITIZATION - Category 1A		
Skin Sens. 1		SKIN SENSITIZATION - Category 1		
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2		
Repr. 2		TOXIC TO REPRODUCTION - Category 2		
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3		
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2		
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - C	Category 2	
Carc. 2		CARCINOGENICITY - Category 2		
Asp. Tox. 1		ASPIRATION HAZARD - Category 1	-	
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3		
Aquatic Chronic 2		AQUATIC HAZARD (LONG-TERM) - Category 2		
Aquatic Chronic 1		AQUATIC HAZARD (LONG-TERM) - Category	1	
Aquatic Acute 1		AQUATIC HAZARD (ACUTE) - Category 1		
Acute Tox. 4	A	ACUTE TOXICITY - Category 4		

SECTION 16: Other information		
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Date of printing	: 3 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

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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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