

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 SILVER AIC 9.27

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

# 1.1 Product identifier

Product name SDS code : FRS-40 SEMI-GLOSS BASE SILVER AIC 9.27 : 40980927B

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

Identified uses		
Paint. Professional us	se Industrial use	
	Uses advised against	
All other uses		
Braduat uga	<ul> <li>Solvent horne coating for interior use</li> </ul>	

Product use

: Solvent borne coating for interior use.

# 1.3 Details of the supplier of the safety data sheet

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

responsible for this SDS

# 1.4 Emergency telephone number

National advisory body/Poison Center				
Telephone number	: +33 (0)1 40 05 48 48			
<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 Eye Irrit. 2, H319 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. 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. 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
Supplemental label elements	:	Contains 4-morpholinecarbaldehyde, dibutyltin dilaurate and methyl methacrylate. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
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.



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

3.2 Mixtures : Product/ingredient name	Mixture 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	≥50 - ≤75	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	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]
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	≤3	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]
4-morpholinecarbaldehyde	EC: 224-518-3 CAS: 4394-85-8	≤0.3	Skin Sens. 1, H317	[1]
dibutyltin dilaurate	REACH #: 01-2119496068-27 EC: 201-039-8 CAS: 77-58-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 (thymus) STOT RE 1, H372 (immune system) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
methyl methacrylate	REACH #:	≤0.3	Flam. Liq. 2, H225	[1] [2]
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SECTION 3: Composition/information on ingredients				
	01-2119452498-28		Skin Irrit. 2, H315	
	EC: 201-297-1 CAS: 80-62-6		Skin Sens. 1, H317 STOT SE 3, H335	
	Index: 607-035-00-6		STOT SE 3, 11333	
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]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332	[1] [2]
			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	Wash skin thoroughly with soap and water or use recognized skin cleanser. 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.		
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# **SECTION 4: First aid measures**

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

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, dibutyltin dilaurate, methyl methacrylate. 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 dryness cracking
Ingestion	: No specific data.

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

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

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

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<b>SECTION 5: Firefight</b>	ing measures
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 halogenated compounds
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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials fo	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

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6.4 Reference to other sections	: See Section 1 for emergency See Section 8 for information See Section 13 for additional	on appropriate personal prot	ective equipment.
Large spill	: Stop leak if without risk. Mov explosion-proof equipment. A sewers, water courses, baser effluent treatment plant or pro combustible, absorbent mate and place in container for dis licensed waste disposal contr same hazard as the spilled pr	Approach release from upwine ments or confined areas. Wa beed as follows. Contain and rial e.g. sand, earth, vermicul posal according to local regula ractor. Contaminated absorb	d. Prevent entry into sh spillages into an d collect spillage with non- ite or diatomaceous earth ations. Dispose of via a
	Alternatively, or if water-insolu appropriate waste disposal co contractor.		material and place in an

# **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). 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

	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**



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

Product/ingredient name	Exposure limit values
n-butyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit
	values (circular)
	STEL: 940 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation
	STEL: 200 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 710 mg/m <sup>3</sup> 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 <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Reaction mass of ethylbenzene and xylene	Ministry of Labor (France, 3/2020). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 o
	the Labor Code)
	STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation
	STEL: 100 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 221 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation
	TWA: 50 ppm 8 hours. Form: Risk for sensitisation
thyl acetate	Ministry of Labor (France, 3/2020). Notes: Binding regulato
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 734 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation
	TWA: 734 flight o hours. Form: Risk for sensitisation
	Ministry of Labor (France, 3/2020). Notes: Binding regulato
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 1468 mg/m <sup>3</sup> 15 minutes.
	STEL: 400 ppm 15 minutes.
I-methylpentan-2-one	Ministry of Labor (France, 3/2020). Notes: Binding regulato
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 208 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation
	STEL: 50 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 83 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation
	TWA: 20 ppm 8 hours. Form: Risk for sensitisation
sopropyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit
	values (circular)
	STEL: 1140 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 950 mg/m <sup>3</sup> 8 hours.
	TWA: 250 ppm 8 hours.
libutyltin dilaurate	Ministry of Labor (France, 3/2020). Notes: Indicative limit
	values (circular)
	STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes. Form: Risk for sensitisa
	TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours. Form: Risk for sensitisation
nethyl methacrylate	Ministry of Labor (France, 3/2020). Notes: Binding regulato
	limit values (article R. 4412-149 of the Labor Code)
	STEL: 410 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation
	STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 205 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation
	TWA: 205 mg/m <sup>o</sup> 8 hours. Form: Risk for sensitisation
umene	Ministry of Labor (France, 3/2020). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 o
	the Labor Code)
	STEL: 250 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation
	STEL: 50 ppm 15 minutes. Form: Risk for sensitisation
	TWA: 100 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation
	TWA: 20 ppm 8 hours. Form: Risk for sensitisation
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cyclohexanone	Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 81.6 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 20 ppm 15 minutes. Form: Risk for sensitisation TWA: 40.8 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 10 ppm 8 hours. Form: Risk for sensitisation
procedures atmos of the prote the fo the as	product contains ingredients with exposure limits, personal, workplace sphere or biological monitoring may be required to determine the effectiveness ventilation or other control measures and/or the necessity to use respiratory ctive equipment. Reference should be made to monitoring standards, such as llowing: European Standard EN 689 (Workplace atmospheres - Guidance for sessment of exposure by inhalation to chemical agents for comparison with values and measurement strategy) European Standard EN 14042 (Workplace

the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	48 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term	102.34 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term	480 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m³	population	5
	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Local
		Inhalation	Ŭ		
	DNEL	Short term	960 mg/m³	Workers	Systemic
		Inhalation	Ŭ		5
Reaction mass of ethylbenzene and	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
xylene		Ŭ	bw/day	population	5
,	DNEL	Long term	14.8 mg/m <sup>3</sup>	General	Systemic
		Inhalation	· · · · · · · · · · · · · · · · · · ·	population	-,
	DNEL	Long term	77 mg/m³	Workers	Systemic
	<b>_</b>	Inhalation			,
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		,
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
			bw/day	population	
				L - L analasi	
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	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	734 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	734 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	734 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m³	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 Long term	14.7 mg/m <sup>3</sup> 14.7 mg/m <sup>3</sup>	population	Local Systemic
	DNEL	Inhalation Long term	83 mg/m <sup>3</sup>	population Workers	Local
	DNEL	Inhalation Long term	83 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Short term	155.2 mg/	General	Local
	DNEL	Inhalation Short term	m <sup>3</sup> 155.2 mg/	population General	Systemic
	DNEL	Inhalation Short term	m <sup>3</sup> 208 mg/m <sup>3</sup>	population Workers	Local
	DNEL	Inhalation Short term	208 mg/m <sup>3</sup>	Workers	Systemic
isopropyl acetate	DNEL	Inhalation Long term Oral	26 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 26 mg/kg bw/day	population General population	Systemic
	DNEL	Long term Dermal	43 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	252 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	252 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	420 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	420 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation Short term	510 mg/m <sup>3</sup>	General population Workers	Systemic
1 mornholinesserholdsbuds	DNEL	Short term Inhalation	850 mg/m <sup>3</sup>	Workers	Systemic
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg bw/day	General population	Systemic
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e of previous issue	: No previous va	lidation	10/25		AkzoNob

ECTION 8: Exposu					
	DNEL	Long term Dermal	8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	14 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	29 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
dibutyltin dilaurate	DNEL	Short term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	0.07 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.01 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	0.5 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	0.02 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Short term Oral	0.01 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.08 mg/ kg bw/day	[Consumers] General population [Consumers]	Systemic
	DNEL	Long term Inhalation	0.003 mg/ m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.002 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.004 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.006 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Short term Oral	0.02 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>		Systemic
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.16 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.42 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	2.08 mg/ kg bw/day	Workers	Systemic
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	74.3 mg/m <sup>3</sup>	population	Systemic
	DNEL	Long term Inhalation	104 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Local
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te of previous issue	: No previous va	lidation	11/25		AkzoNob

ECTION 8: Exposu				1	
	DNEL	Long term	208 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
cumene	DNEL	Long term Dermal	1.2 mg/kg	General	Systemic
		-	bw/day	population	
	DNEL	Long term Oral	5 mg/kg	General	Systemic
		Ŭ	bw/day	population	,
	DNEL	Long term Dermal	15.4 mg/	Workers	Systemic
		20119 10111 2 011110	kg bw/day		- )
	DNEL	Long term	16.6 mg/m <sup>3</sup>	General	Systemic
		Inhalation	ro.o mg/m	population	Cyclonic
	DNEL	Long term	100 mg/m <sup>3</sup>	Workers	Systemic
	DINCL	Inhalation	100 mg/m	VIOINEIS	Systemic
	DNEL	Short term	250 mg/m <sup>3</sup>	Workers	Local
	DINEL		250 mg/m	WOIKEIS	LUCAI
evel e bever e re		Inhalation	1 mag av // c.av	Comorrol	Customia
cyclohexanone	DNEL	Short term Dermal	1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	1 mg/kg	General	Systemic
			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 bw/day	Workers	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	10 mg/m <sup>3</sup>	General	Systemic
		Inhalation	. • <u>9</u> ,	population	- )
	DNEL	Long term	20 mg/m³	General	Local
		Inhalation	3	population	
	DNEL	Short term	20 mg/m³	General	Systemic
		Inhalation	20 mg/m	population	eyetenne
	DNEL	Short term	40 mg/m <sup>3</sup>	General	Local
	DIVLL	Inhalation	40 mg/m	population	Loodi
	DNEL	Long term	40 mg/m <sup>3</sup>	Workers	Local
	DINEL	Inhalation	40 mg/m	WOIKEIS	Local
	DNEL	Long term	40 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	-o mg/m	VUINCIS	Systemic
			90 mc/m <sup>3</sup>	Workora	
	DNEL	Short term	80 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	80 mg/m³	Workers	Systemic
		Inhalation			

#### <u>PNECs</u>

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

#### 8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Individual protection measures

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	e controls/personal protection
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard shou be worn at all times when handling chemical products if a risk assessment indicat this is necessary. Considering the parameters specified by the glove manufacture 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 glov 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 th 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 importa aspects of use.
Environmental exposure controls	<ul> <li>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.</li> </ul>



# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Color : Silver. 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 : Not available. Evaporation rate Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available. explosive limits Vapor pressure : Not available. Vapor density : Highest known value: 3.7 (Air = 1) (ethylbenzene). Weighted average: 3.91 (Air = 1)Density : 0.951 g/cm<sup>3</sup> : Insoluble in the following materials: cold water. Solubility(ies) Partition coefficient: n-octanol/ : Not available. wator

Water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): 10.52 cm <sup>2</sup> /s Kinematic (40°C): 1.01 cm <sup>2</sup> /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 <sup>3</sup>	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	Z nouro
				-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	_
Reaction mass of	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC30 Initialation Gas.	nai	5000 ppm	4 110015
ethylbenzene and xylene				
ethyl acetate	LC50 Inhalation Gas.	Rat	1600 ppm	8 hours
	LC50 Inhalation Vapor	Mouse	45 g/m <sup>3</sup>	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 <sup>3</sup>	8 hours
isopropyr acetate				onours
	LD50 Oral	Rabbit	6946 mg/kg	-
	LD50 Oral	Rat	6750 mg/kg	-
4-morpholinecarbaldehyde	LD50 Oral	Rat	6500 uL/kg	-
dibutyItin dilaurate	LC50 Inhalation Dusts and mists	Mouse	150 mg/m <sup>3</sup>	2 hours
	LD50 Intraperitoneal	Mouse	180 mg/kg	_
	LD50 Intravenous	Rat	33 mg/kg	
				-
	LD50 Oral	Mouse	210 mg/kg	-
	LD50 Oral	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	175 mg/kg	-
methyl methacrylate	LC50 Inhalation Vapor	Mouse	18500 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rat	78000 mg/m <sup>3</sup>	4 hours
				HIDUIS
	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	
				1
	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	
			7000 m m/km	1
	LD50 Subcutaneous	Rat	7088 mg/kg	<u> -</u>
cumene	LC50 Inhalation Vapor	Mouse	15300 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Mouse	10 g/m³	7 hours
	LC50 Inhalation Vapor	Mouse	10000 mg/m <sup>3</sup>	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12300 uL/kg	-
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# **SECTION 11: Toxicological information**

	LD50 Oral	Mouse	12750 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-
	LD50 Oral	Rat	1400 mg/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50 Intraperitoneal	Guinea pig	930 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Oral	Mouse	1400 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uL/kg	-
	LD50 Subcutaneous	Rat	2170 mg/kg	-

**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	-
Departies many of		Debbit		mg	
Reaction mass of ethylbenzene and xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		Dabbit		mg	
4 mothulaantan 2 ana	Skin - Moderate irritant	Rabbit Rabbit	-	100 % 24 hours 100	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	UI	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
isopropyl acetate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
4	Europ Milel inside set	Dahla		mg	
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 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	_
		Rabbit	_	mg	_
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
-				ug	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Not available.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
		-			
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# **SECTION 11: Toxicological information**

Conclusion/Summary: Not available.Reproductive toxicity: Not available.Conclusion/Summary: Not available.

**Teratogenicity** 

# **Conclusion/Summary** : Not available.

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
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
dibutyltin dilaurate	Category 1	-	thymus
methyl methacrylate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
· · · · · · · · · · · · · · · · · · ·	Category 2 Category 1	-	- immune system

# Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene aromatic hydrocarbons, C9	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.					
Potential acute health effects	5						
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 ski	n dryness a	and irritation.			
Ingestion	:	Can cause central nervous system (	CNS) depre	ession.			
Symptoms related to the phy	<u>/si</u>	cal, chemical and toxicological cha	<u>racteristics</u>	2			
Eye contact	:	Adverse symptoms may include the pain or irritation watering redness	following:				
Inhalation	:	Adverse symptoms may include the nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	following:				
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<b>SECTION 11: Toxico</b>	logical information
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
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,	
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# **SECTION 12: Ecological information**

ECTION 12: ECOL	Sylcar mormation		
		Weanling)	
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	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 - Embryo	32 days
-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
opropyl 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 - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	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 hour
		Adult	
	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas - Adult	96 hour
umene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hour
	Acute EC50 7.4 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 7.5 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	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 - Neonate	48 hours
	Acute EC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7.4 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 8 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 20.3 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 20.3 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 6320 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 5100 µg/l Fresh water	Fish - Poecilia reticulata	96 hours
valabovanana	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
yclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

# 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.



# **SECTION 12: Ecological information**

# 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	
ethyl acetate	0.68	30	low	
4-methylpentan-2-one	1.9	-	low	
isopropyl acetate	1.3	-	low	
4-morpholinecarbaldehyde	-	<1.9	low	
dibutyltin dilaurate	4.44	2.91	low	
methyl methacrylate	1.38	-	low	
cumene	3.55	35.48	low	
cyclohexanone	0.86	-	low	

# 12.4 Mobility in soil

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

### 12.5 Results of PBT and vPvB assessment

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

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

# **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment methods

<u>Product</u>		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	:	Do not allow to enter drains or watercourses. 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				
<u>Packaging</u> Methods of disposal	I 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.				
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# **SECTION 13: Disposal considerations**

Disposal considerations	<ul> <li>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.</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group		111	
14.5 Environmental hazards	No.	No.	No.

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.
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	:	Not applicable.

# **SECTION 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 substances subject to authorization

Annex XIV

None of the components are listed.

# Substances of very high concern



# **SECTION 15: Regulatory information**

None of the components are listed.

Annex XVII - Restrictions	:	Not applicable.
on the manufacture,		
placing on the market		
and use of certain		
dangerous substances,		
mixtures and articles		

#### **Other EU regulations**

- VOC
- : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.
- **VOC for Ready-for-Use** : Not applicable.

Mixture		
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed
Ozone depleting substance	es	<u>(1005/2009/EU)</u>

Not listed.

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

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

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 appl to the use of this product at work.		
Social Security Code,	: n-butyl acetate	RG 84	
Articles L 461-1 to L 461-7	Reaction mass of ethylbenzene and xylene	RG 4bis, RG 84	
	ethyl acetate	RG 84	
	4-methylpentan-2-one	RG 84	
	isopropyl acetate	RG 84	
	methyl methacrylate	RG 82 RG 84	
	cumene cyclohexanone	RG 84	
Reinforced medical surveillance	<ul> <li>Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable</li> </ul>		
International regulations			
Chemical Weapon Conventi	on List Schedules I, II & III Chemicals		
Not listed.			
<u>Montreal Protocol</u>			
Not listed.			
Stockholm Convention on P	ersistent Organic Pollutants		

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# **SECTION 15: Regulatory information**

#### 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.
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15.2 Chemical Safety	: No Chemical Safety Assessment has been carried out.
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#### Assessment

# **SECTION 16: Other information**

Indicates information that	has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
Carc. 2, H351	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

H225	Hiat	hly flammable liquid and vapor.	
H226		nmable liquid and vapor.	
H304		be fatal if swallowed and enters airways.	
H312		mful in contact with skin.	
H315		ises skin irritation.	
H317	•	/ cause an allergic skin reaction.	
H319		ises serious eye irritation.	
H332		mful if inhaled.	
H335			
H336	May cause respiratory irritation.		
H341			
H360FD	ISS1 Suspected of causing cancer.		4
	May damage fertility. May damage the unborn child.		J.
H370	5 5		w a a fa al
H372		Causes damage to organs through prolonged or repeated	
11070		exposure.	
H373		May cause damage to organs through prolonged or repeated	
	•	osure.	
H400 Very toxic to aquatic life.			
H410 Very toxic to aquatic life with long lasting effects.			
H411	· · · · · · · · · · · · · · · · · · ·		
H412	Harr	Harmful to aquatic life with long lasting effects.	
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	FRS-40 56	EMI-GLOSS BASE SILVER AIC 9.27	
<b>SECTION 16: Othe</b>	r information		
EUH066		Repeated exposure may cause skin dryness or cracking.	
Full text of classifications	[CLP/GHS]		
Acute Tox. 4 Aquatic Acute 1		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1	
Aquatic Chronic 1		AQUATIC HAZARD (LONG-TERM) - Category 1	
Aquatic Chronic 2		AQUATIC HAZARD (LONG-TERM) - Category 2	
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3	
Asp. Tox. 1		ASPIRATION HAZARD - Category 1	
Carc. 2		CARCINOGENICITY - Category 2	
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2	
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3	
Muta. 2		GERM CELL MUTAGENICITY - Category 2	
Repr. 1B		TOXIC TO REPRODUCTION - Category 1B	
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1		SKIN SENSITIZATION - Category 1	
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	
STOT SE 1		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	
STOT SE 3		SPEČIFÍC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
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Unique ID	:		

### Notice to reader

### FOR PROFESSIONAL USE ONLY

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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