

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 META LIGHT PEARL 0711P31/A456

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 META LIGHT PEARL 0711P31/A456 : 4092A456B

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

	Identified uses
Paint. Professional u	e Industrial use
	Uses advised against
All other uses	
Product use	: 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/Po	<u>oison Center</u>
Telephone number	: 112
<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

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

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

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

Date of issue/Date of revision	: 2-11-2022	Version : 2.01	
Date of previous issue	: 6-10-2022	1/19	AkzoNobel

SECTION 2: Hazards identification

2.2 Label elements

Signal word

Hazard pictograms



Hazard statements	:	Flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer.
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 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 methyl methacrylate and 4-morpholinecarbaldehyde. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	er	<u>its</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.



Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
p-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	<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]
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]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
4-morpholinecarbaldehyde	CAS: 4394-85-8	≤0.3	Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above.	[1]

SECTION 3: Composition/information on ingredients

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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



SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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.
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 methyl methacrylate, 4-morpholinecarbaldehyde. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
-------------	--------------------------------------------------------------------------------------------



	FRS-40 SEMI-GLOSS BASE META LIGHT PEARL 0711P31/A456
SECTION 4: First aid	l measures
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 immedi	ate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: 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	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
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	: No action shall be taken involving any personal risk or without suitable training.
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
	entering. Do not touch or walk through spilled material. Shut off all ignition sources.
	No flares, smoking or flames in hazard area. Avoid breathing vapor or mist.
	Provide adequate ventilation. Wear appropriate respirator when ventilation is
	inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
6.3 Methods and materials fo	r containment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and 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). 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. 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

Date of issue/Date of revision	: 2-11-2022	Version : 2.01	
Date of previous issue	: 6-10-2022	6/19	AkzoNobel

SECTION 7: Handling and storage

Danger criteriaCategoryNotification and MAPP
thresholdSafety report thresholdP5c5000 tonne50000 tonne

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

	t name	Exposure limit values
p-butyl acetate		Work environment authority Regulation 2018:1 (Sweden, 2/2018). STEL: 700 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
2-methoxy-1-methylethyl aceta	te	Work environment authority Regulation 2018:1 (Sweden, 2/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.
Reaction mass of ethylbenzene	e and xylene	Work environment authority Regulation 2018:1 (Sweden, 2/2018). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
4-methylpentan-2-one		Work environment authority Regulation 2018:1 (Sweden, 2/2018). STEL: 200 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
methyl methacrylate		Work environment authority Regulation 2018:1 (Sweden, 2/2018). Skin sensitizer. STEL: 400 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 200 mg/m ³ 8 hours.
		TWA: 50 ppm 8 hours.
	atmosphere o of the ventilati protective equ the following: the assessme	
Recommended monitoring procedures	atmosphere o of the ventilati protective equ the following: the assessme	TWA: 50 ppm 8 hours. t contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectivenes tion or other control measures and/or the necessity to use respiratory uipment. Reference should be made to monitoring standards, such a European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with

SECTION 8: Exposure controls/personal protection

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	- J
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
	DIVLL	Long term Derma	bw/day	Wonters	Cysternio
	DNEL	Long term	12 mg/m ³	General	Systemic
	DNEL	Inhalation	12 mg/m		Systemic
			40	population	0
	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 ³	Workers	Local
		Inhalation			
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m ³	population	
	DNEL	Short term	960 mg/m ³	Workers	Local
	DIVEL	Inhalation	ooo mg/m	Wontoro	Lood
	DNEL	Short term	960 mg/m ³	Workers	Systemic
	DINLL	Inhalation	900 mg/m	VUINEIS	Systemic
Departies many of athemany and				Conoral	Custansia
Reaction mass of ethylbenzene and	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
xylene			bw/day	population	
	DNEL	Long term	14.8 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
		Ū.	bw/day	population	-
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		5	bw/day		,
	DNEL	Short term	289 mg/m ³	Workers	Local
	DIVEL	Inhalation	200 mg/m	Wontoro	Lood
	DNEL	Short term	289 mg/m ³	Workers	Systemic
		Inhalation	209 mg/m	WOIKEIS	Oysternic
1 mothulnonton 2 ono	DNEL		1.0 mg/kg	Conoral	Sustamia
4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	11.8 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	14.7 mg/m ³		Local
		Inhalation		population	
	DNEL	Long term	14.7 mg/m ³	General	Systemic
		Inhalation	L C	population	-
	DNEL	Long term	83 mg/m³	Workers	Local
		Inhalation	<u> </u>		
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation	55 mg/m		2,00000
	DNEL	Short term	155.2 mg/	General	Local
	DIVEL		m ³		LUCAI
	DNEL	Inhalation Short term		population	Sustantia
		ISHOLIER	155.2 mg/	General	Systemic
			J		5
e of issue/Date of revision : 2-11	-2022		Version		AkzoNob



SECTION 8: Exposure controls/personal protection

ECTION 6. Exposure controls/personal protection							
		Inhalation	m³	population			
	DNEL	Short term	208 mg/m ³	Workers	Local		
		Inhalation	•				
	DNEL	Short term	208 mg/m³	Workers	Systemic		
		Inhalation					
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic		
			bw/day	population			
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic		
			kg bw/day	- ·			
	DNEL	Long term	74.3 mg/m ³	General	Systemic		
		Inhalation		population			
	DNEL	Long term	104 mg/m³	General	Local		
		Inhalation	000 / 3	population			
	DNEL	Long term	208 mg/m ³	Workers	Local		
		Inhalation	000		Quatantia		
	DNEL	Long term	208 mg/m ³	Workers	Systemic		
4 marphalinaaarhaldahyda		Inhalation	9 ma/ka	Conoral	Svotomio		
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg	General	Systemic		
	DNEL	Long torm Dormal	bw/day	population General	Systemic		
	DINEL	Long term Dermal	8 mg/kg bw/day	population	Systemic		
	DNEL	Long term Dermal	14 mg/kg	Workers	Systemic		
		Long term Derma	bw/day	WUINEIS	Oysternic		
	DNEL	Long term	29 mg/m ³	General	Systemic		
		Inhalation	20 mg/m	population	Cystonio		
	DNEL	Long term	98 mg/m³	Workers	Systemic		
		Inhalation	55 mg/m				

PNECs

No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.



SECTION 8: Exposure controls/personal protection

	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Gray.		
Odor	: Characteristic.		
Odor threshold	: Not available.		
рН	: Not available.		
Melting point/freezing point	: Not available.		
Initial boiling point and boiling range	: Not available.		
Flash point	: Closed cup: 28°C		
Evaporation rate	: Not available.		
Flammability (solid, gas)	: Not available.		
Upper/lower flammability or explosive limits	: Not available.		
Vapor pressure	: Not available.		
Vapor density	: Highest known value: Weighted average: 4.0	4.6 (Air = 1) (2-methoxy-1-met 05 (Air = 1)	hylethyl acetate).
Density	: 1.123 g/cm ³		
Solubility(ies)	: Insoluble in the followi	ng materials: cold water.	
Date of issue/Date of revision	: 2-11-2022	Version : 2.01	
Date of previous issue	: 6-10-2022	10/19	AkzoNobel

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 8.9 cm²/s Kinematic (40°C): 1.01 cm²/s

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m ³	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Reaction mass of	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
ethylbenzene and xylene				
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	-
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	-
e of issue/Date of revision	: 2-11-2022	Version	: 2.01	
e of previous issue	: 6-10-2022	11/19		AkzoNob

SECTION 11: Toxicological information

	•				
	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	-	
4-morpholinecarbaldehyde	LD50 Oral	Rat	6500 uL/kg	-	
4-morpholinecarbaldehyde	LD50 Oral	Rat	•••	-	

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
p -butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				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	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100 Ul	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	: Not available.		•		•
<u>Sensitization</u>					

: Not available.
: Not available.
: Not available.
: Not available.

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Date of issue/Date of revision	: 2-11-2022	Version : 2.01	
Date of previous issue	: 6-10-2022	12/19	AkzoNobel

Category	Route of exposure	Target organs
Category 2	-	-
-		exposure

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	È	
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.
Ingestion	:	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	sic	cal, 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 dryness cracking
Ingestion	:	No specific data.
<u>Delayed and immediate effec</u> <u>Short term exposure</u> Potential immediate		and also chronic effects from short and long term exposure Not available.
effects		
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects		Not available.
Potential chronic health effe	ect	<u>s</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.
Date of issue/Date of revision		: 2-11-2022 Version : 2.01
Date of previous issue		: 6-10-2022 13/19 AkzoNobel

SECTION 11: Toxicological information

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

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

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name	Result	Species	Exposure
<mark>p</mark> -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			
4-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 -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
methyl 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
	10	Adult	
	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Adult	

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
p -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
4-methylpentan-2-one	1.9	-	low
methyl methacrylate	1.38	-	low
4-morpholinecarbaldehyde	-	<1.9	low

12.4 Mobility in soil

Date of issue/Date of revision	: 2-11-2022	Version : 2.01	
Date of previous issue	: 6-10-2022	14/19	AkzoNobel

SECTION 12: Ecological information

Soil/water partition: Not available.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.



SECTION 14.	папъро	rt 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		111	111	
14.5 Environmental hazards	No.		No.	No.	
Additional informa ADR/RID IMDG	<u>ation</u>	packagings up to 4 <u>Tunnel code</u> (D/E <u>Emergency schec</u> <u>Viscous liquid exe</u>	50 L according to 2.2.3.1.3) Iules F-E, _S-E_	us liquid is not subject to regulatio 5.1. us liquid is not subject to regulatio	
14.6 Special preca user	utions for		. Ensure that persons tran	ransport in closed containers that sporting the product know what to	
14.7 Transport in ta according to IMO instruments	bulk	Not applicable.			

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 authoriza	tion		
<u>Annex XIV</u>				
None of the components a	e listed.			
Substances of very high	<u>i concern</u>			
None of the components a	None of the components 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	: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.			
VOC for Ready-for-Use Mixture	: Not applicable.			
Date of issue/Date of revision	: 2-11-2022	Version : 2.01		
Date of previous issue	:6-10-2022	16/19	AkzoNobel	

SECTION 15: Regulatory information

OLOHON 15. Regul	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substan Not listed.	<u>ces (1005/2009/EU)</u>
Prior Informed Consent (Not listed.	<u>PIC) (649/2012/EU)</u>
<u>Seveso Directive</u> This product is controlled u <u>Danger criteria</u>	inder the Seveso Directive.
Category	
P5c	
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.
Flammable liquid class (SRVFS 2005:10)	: 2a
International regulations	
Chemical Weapon Conver Not listed.	ntion List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on Not listed.	Persistent Organic Pollutants
Rotterdam Convention on Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol o Not listed.	n POPs and Heavy Metals
<u>Inventory list</u> Europe	: Not determined.
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.



SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]		
	DMEL = Derived Minimal Effect Level		
	DNEL = Derived No Effect Level		
	EUH statement = CLP-specific Hazard statement		
	N/A = Not available		
	PBT = Persistent, Bioaccumulative and Toxic		
	PNEC = Predicted No Effect Concentration		
	RRN = REACH Registration Number		
	SGG = Segregation Group		
	vPvB = Very Persistent and Very Bioaccumulative		

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	

Full text of abbreviated H statements

 ▶ 225 ▶ 1226 ▶ 1304 ▶ 1312 ▶ 1315 ▶ 1317 ▶ 1319 ▶ 1332 ▶ 1335 		Highly flammable liquid and vapor. Flammable liquid and vapor. May be fatal if swallowed and enters airways Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.	5.
H336 H351 H373		May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolot exposure.	nged or repeated
H412 EUH066		Harmful to aquatic life with long lasting effect Repeated exposure may cause skin dryness	
Full text of classifications	[CLP/GHS]		
Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (RE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SI Category 3	V - Category 2 / 2 EPEATED
Date of printing	: 2 November 20	22	
Date of issue/ Date of revision	: 2 November 20	22	
Date of previous issue	: 6 October 2022		
Version	: 2.01		
Unique ID	:		
Date of issue/Date of revision	: 2-11-2022	Version : 2.01	
Date of previous issue	: 6-10-2022	18/19	AkzoNobel

SECTION 16: Other information

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.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.

