

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

SAFETY DATA SHEET

FRS-40 MATT BASE METAL LIGHT GREY B47/B533

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

1.1 Product id	entifier
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Product name SDS code

: FRS-40 MATT BASE METAL LIGHT GREY B47/B533 : 4072B533B

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

	Identified uses
Paint. Professional us	e Industrial use
	Uses advised against
All other uses	
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 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412

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

Date of issue/Date of revision	: 1-11-2022	Version : 1.01	
Date of previous issue	: 1-10-2022	1/19	AkzoNobel

SECTION 2: Hazards identification

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.

2.2 Label elements

Hazard pictograms	:				
Signal word	:	Warning			
Hazard statements	:	Causes skin irritation. Causes serious eye irri May cause drowsiness Suspected of causing of May cause damage to	Flammable liquid and vapor.		
Precautionary statements					
Prevention	:	Obtain special instructi and eye or face protect flames and other ignition Do not breathe vapor.	ion. Keep away fr on sources. No sm	om heat, hot surfa oking. Avoid rele	aces, sparks, open ase to the environment.
Response	:	IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.			
Storage	:	Store in a well-ventilate	ed place. Keep con	tainer tightly close	ed. Keep cool.
Disposal	:	Dispose of contents an and international regula		ordance with all lo	cal, regional, national
Hazardous ingredients	:	 P-butyl acetate Reaction mass of ethylbenzene and xylene 4-methylpentan-2-one Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%) 			
Supplemental label elements	:	Contains methyl methacrylate and 4-morpholinecarbaldehyde. May produce an allergic reaction.			de. May produce an
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 o vPvB.	contain any substa	nces that are ass	essed to be a PBT or a
Date of issue/Date of revision		: 1-11-2022	V	ersion : 1.01	
Date of previous issue		: 1-10-2022	2/	/19	AkzoNobel

SECTION 2: Hazards identification

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : N	lixture			1
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]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32	≥10 - ≤15	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
2-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]
4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	[1] [2]
aromatic hydrocarbons, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≤2.5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 919-446-0	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
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	<1	Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above.	[1]

Date of issue/Date of revision	: 1-11-2022	Version : 1.01	
Date of previous issue	: 1-10-2022	3/19	AkzoNobel

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

4.2 Most important symptoms and effects, both acute and delayed

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.

Date of issue/Date of revision	: 1-11-2022	Version : 1.01	
Date of previous issue	: 1-10-2022	4/19	AkzoNobel

SECTION 4: First aid measures

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

Contains methyl methacrylate, 4-morpholinecarbaldehyde. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

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5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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 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.
equipment for fire-fighters	mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection f



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an 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 : See Section 1 for emergency contact information. sections See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	obtain special instruction have been read and un breathe vapor or mist. with adequate ventilation inadequate. Do not ent ventilated. Keep in the compatible material, ke heat, sparks, open flam (ventilating, lighting and Take precautionary me	Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 electric (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	handled, stored and pro eating, drinking and sm	noking should be prohibited in areas ocessed. Workers should wash han oking. Remove contaminated clothi ring eating areas. See also Section measures.	ds and face before ing and protective
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Date of previous issue	: 1-10-2022	6/19	AkzoNobel

SECTION 7: Handling and storage

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

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

7.3 Specific end use(s)

Recommendations	: Not available
Industrial sector specific	: Not available

Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values		
P-butyl acetate		Ministry of Labor (France, 3/2020). Notes: Indicative limit		
		values (circular) STEL: 940 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 200 ppm 15 minutes. Form: Risk for sensitisation TWA: 710 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 150 ppm 8 hours. Form: Risk for sensitisation		
Reaction mass of ethylbenzene	e and xylene	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of		
		the Labor Code) STEL: 442 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation		
2-methoxy-1-methylethyl acetate		Ministry of Labor (France, 10/2016). Absorbed through skin. Notes: Labour Act , Art 4412-149 (Regulatory binding exposure limits)		
		STEL: 550 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.		
4-methylpentan-2-one		Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 208 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 50 ppm 15 minutes. Form: Risk for sensitisation TWA: 83 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation		
methyl methacrylate		Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 410 mg/m ³ 15 minutes. Form: Risk for sensitisation		
Date of issue/Date of revision	: 1-11-2022	Version : 1.01		
Date of previous issue	: 1-10-2022	7/19 AkzoNobel		

SECTION 8: Exposure controls/personal protection

		STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 205 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
Recommended monitoring procedures	atmosphere or l of the ventilation protective equip the following: E the assessment limit values and atmospheres - (of exposure to o (Workplace atm for the measure	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory oment. Reference should be made to monitoring standards, such as suropean Standard EN 689 (Workplace atmospheres - Guidance for t of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg	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/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	48 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	102.34 mg/	General	Local
		Inhalation	m³ Ö	population	
	DNEL	Long term	480 mg/m ³	Workers	Local
		Inhalation	Ŭ		
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m³ S	population	,
	DNEL	Short term	960 mg/m ³	Workers	Local
		Inhalation	5		
	DNEL	Short term	960 mg/m ³	Workers	Systemic
		Inhalation	J		,
Reaction mass of ethylbenzene	and DNEL	Long term Oral	1.6 mg/kg	General	Systemic
xylene		5	bw/day	population	,
y	DNEL	Long term	14.8 mg/m ³		Systemic
		Inhalation	- 0	population	,
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			-,
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
		<u> </u>	bw/day	population	,
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	_		bw/day	-	,
	DNEL	Short term	289 mg/m ³	Workers	Local
	_	Inhalation		-	
	DNEL	Short term	289 mg/m ³	Workers	Systemic
		Inhalation			,
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		
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e of issue/Date of revision	: 1-11-2022		Version	: 1.01	AkzoNob

ECTION 8: Exposure c	ontrols/p	ersonal prote	ction		
	DNEL	Long term	14.7 mg/m ³	General	Local
		Inhalation	0	population	
	DNEL	Long term	14.7 mg/m ³		Systemic
		Inhalation	Ũ	population	5
	DNEL	Long term	83 mg/m ³	Workers	Local
		Inhalation	-		
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation	_		-
	DNEL	Short term	155.2 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	155.2 mg/	General	Systemic
		Inhalation	m³ –	population	
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	208 mg/m ³	Workers	Systemic
		Inhalation			
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	74.3 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term	104 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	208 mg/m ³	Workers	Systemic
		Inhalation			
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	14 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	29 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls	contaminants below any recom	controls to keep worker exposur mended or statutory limits. The vapor or dust concentrations be	re to airborne engineering
Individual protection measur	es		
Hygiene measures	Appropriate techniques should	ng the lavatory and at the end of be used to remove potentially co efore reusing. Ensure that eyewa	the working period. Intaminated clothing.
Eye/face protection	gases or dusts. If contact is po	an approved standard should be cessary to avoid exposure to liquessible, the following protection sl as a higher degree of protection:	uid splashes, mists, hould be worn,
Date of issue/Date of revision	: 1-11-2022	Version : 1.01	
Date of previous issue	: 1-10-2022	9/19	AkzoNobel

SECTION 8: Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Silver.		
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.		
Date of issue/Date of revision	: 1-11-2022	Version : 1.01	
Date of previous issue	: 1-10-2022	10/19	AkzoNobel

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.01 (Air = 1)
Density	:	0.978 g/cm³
Solubility(ies)	:	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 11.25 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
-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m ³	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Reaction mass of ethylbenzene and xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
4-methylpentan-2-one	LD50 Intraperitoneal	Guinea pig	800 mg/kg	-
51	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	-
e of issue/Date of revision	: 1-11-2022	Version	: 1.01	
te of previous issue	: 1-10-2022	11/19		AkzoNob

SECTION 11: Toxicological information

	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	-
	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	-

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	-
5	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	• Not available				

Conclusion/Summary	: Not available.	
Sensitization		
Conclusion/Summary	: Not available.	
<u>Mutagenicity</u>		
Conclusion/Summary	: Not available.	
Carcinogenicity		
Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
Teratogenicity		
Conclusion/Summary	: Not available.	
Specific target organ toxicity (single exposure)		



SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
-butyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
aromatic hydrocarbons, C9	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%)	Category 3	-	Narcotic effects
methyl methacrylate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on the likely : Not available. routes of exposure

Potential acute health effects

l otoritial aoato noaiti	
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

Date of issue/Date of revision	: 1-11-2022	Version : 1.01	
Date of previous issue	: 1-10-2022	13/19	AkzoNobel

SECTION 11: Toxicological information

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
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.

Result	Species	Exposure
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
	Fish - Danio rerio	96 hours
Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
		96 hours
		96 hours
10		
Chronic NOEC 78 mg/l Fresh water		21 days
		33 days
5		,
Acute LC50 191000 µg/l Fresh water		96 hours
1.0		
Acute LC50 159100 µg/l Fresh water		96 hours
		96 hours
		96 hours
		_
Acute LC50 130000 ug/l Fresh water		96 hours
	Acute LC50 100000 µg/l Fresh water Acute LC50 18000 µg/l Fresh water Acute LC50 185000 µg/l Marine water Acute LC50 62000 µg/l Fresh water Acute LC50 13400 µg/l Fresh water	 Acute LC50 32 mg/l Marine water Acute LC50 100000 µg/l Fresh water Acute LC50 18000 µg/l Fresh water Acute LC50 185000 µg/l Fresh water Acute LC50 62000 µg/l Fresh water Acute LC50 505000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Acute LC50 537000 µg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 191000 µg/l Fresh water Acute LC50 159100 µg/l Fresh water Acute LC50 150000 µg/l Fresh water Acute LC

Conclusion/Summary

: Not available.

SECTION 12: Ecological information

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
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl acetate	1.2	-	low
4-methylpentan-2-one	1.9	-	low
methyl methacrylate 4-morpholinecarbaldehyde	1.38 -	- <1.9	low 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 substance		nces
<u>Packaging</u> Methods of disposal		should be avoided or minimized wherever possib ycled. Incineration or landfill should only be consi sible.	
ate of issue/Date of revision	: 1-11-2022	Version : 1.01	



SECTION 13: Disposal considerations

Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	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	:	Emergency schedules F-E, _S-E_ Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	:	Not applicable.

SECTION 15: 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	: Listed
(integrated pollution	
prevention and control) -	
Air	
Industrial emissions	: Not listed
(integrated pollution	
prevention and control) -	
Water	
Ozono doplating substance	00 /1005/2000/

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category			
P5c			
National regulations			
Industrial use	own assessment of worl	kplace risks, as required by ns of the national health and	does not constitute the user's other health and safety I safety at work regulations appl
Social Security Code, Articles L 461-1 to L 461-7	: n-butyl acetate Reaction mass of ethylb 4-methylpentan-2-one methyl methacrylate	enzene and xylene	RG 84 RG 4bis, RG 84 RG 84 RG 82
Reinforced medical surveillance	: Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable		
International regulations			
Chemical Weapon Conventi Not listed.	<u>on List Schedules I, II & III</u>	<u>l Chemicals</u>	
Montreal Protocol Not listed.			
Stockholm Convention on F	Persistent Organic Polluta	nts	
Not listed.	-		
Rotterdam Convention on P Not listed.	rior Informed Consent (Pl	<u>C)</u>	
ate of issue/Date of revision	: 1-11-2022	Version : 1.0	
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SECTION 15: Reg	ulatory information
UNECE Aarhus Protoco	I on POPs and Heavy Metals
Not listed.	
Inventory list	
Europe	: Not determined.
15.2 Chemical Safety	: No Chemical Safety Assessment has been carried out.
Assessment	
SECTION 16: Othe	er information
Indicates information the second s	nat 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

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

N/A = Not available

SGG = Segregation Group

Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Carc. 2, H351	Calculation method	
STOT SE 3, H336	Calculation method	
STOT RE 2, H373	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated
	exposure.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]



SECTION 16: Other information			
Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 1	AC AC AS C/ SE FL FL SF SF SF SF SF SF	CUTE TOXICITY - Category 4 QUATIC HAZARD (LONG-TERM) - Category 2 QUATIC HAZARD (LONG-TERM) - Category 3 SPIRATION HAZARD - Category 1 ARCINOGENICITY - Category 2 ERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 AMMABLE LIQUIDS - Category 2 AMMABLE LIQUIDS - Category 3 (IN CORROSION/IRRITATION - Category 2 (IN SENSITIZATION - Category 1 PECIFIC TARGET ORGAN TOXICITY (REPEATED (POSURE) - Category 1 PECIFIC TARGET ORGAN TOXICITY (REPEATED	
STOT SE 3	SF	XPOSURE) - Category 2 PECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - ategory 3	
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Version	: 1.01		
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Notice to reader			

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