

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 PURPLE 180715/ 4074

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 PURPLE 180715/ 4074 : 40924074B

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			
: +33 (0)1 40 05 48 48			
: +33 (0)5 34 01 34 01			
+33 (0)5 61 60 23 30			
:			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Eye Irrit. 2, H319 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.

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SECTION 2: Hazards identification

2.2 Label elements

Signal word

Storage Disposal

Hazard pictograms

Hazard statements



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.
 - : Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- : 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.
- Annex XVII Restrictions : Not applicable. on the manufacture,
- placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.



SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32 EC: 905-588-0	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	[1] [2]
isopropyl acetate	REACH #: 01-2119537214-46 EC: 203-561-1 CAS: 108-21-4 Index: 607-024-00-6	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 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	EC: 224-518-3 CAS: 4394-85-8	≤0.3	Skin Sens. 1, H317	[1]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332	[1] [2]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 See Section 16 for the full text of the H statements declared above.	[1] [2]

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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 lowe eyelids. Check for and remove any contact lenses. Continue to rinse for at least 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 appropria mask or self-contained breathing apparatus. If not breathing, if breathing is irregu 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-mou resuscitation. Get medical attention. If necessary, call a poison center or physicia 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.	ate Iar Ith
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 minut Get medical attention. Wash clothing before reuse. Clean shoes thoroughly befo 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 n 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 g medical attention immediately. Maintain an open airway. Loosen tight clothing su as a collar, tie, belt or waistband.	iot ș,
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If 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.	it

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.

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SECTION 4: First aid measures

Ingestion may cause nausea, diarrhea and vomiting.

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

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

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
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

ry chemical, CO₂, water spra	y (fog) or foam.
t use water jet.	
ubstance or mixture	
e or if heated, a pressure inc	off to sewer may create fire or explosion hazard. crease will occur and the container may burst, with
n dioxide n monoxide	de the following materials:
is a fire. No action shall be t le training. Move containers	oving all persons from the vicinity of the incident if aken involving any personal risk or without from fire area if this can be done without risk. sed containers cool.
ing apparatus (SCBA) with a Clothing for fire-fighters (in ming to European standard	ate protective equipment and self-contained a full face-piece operated in positive pressure cluding helmets, protective boots and gloves) EN 469 will provide a basic level of protection for
 Do no rom the s Flamment In a fing the ris Decorrector carbook carbook haloge Prompt there suitab Use w Fire-fing breath mode conformation 	 In a fire or if heated, a pressure ind the risk of a subsequent explosion Decomposition products may inclucarbon dioxide carbon monoxide halogenated compounds Promptly isolate the scene by remothere is a fire. No action shall be to suitable training. Move containers Use water spray to keep fire-exposes Fire-fighters should wear appropriate breathing apparatus (SCBA) with a mode. Clothing for fire-fighters (in



SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials fo	r c	ontainment 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.

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

	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
n-butyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit values (circular) STEL: 940 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 200 ppm 15 minutes. Form: Risk for sensitisation TWA: 710 mg/m ³ 8 hours. Form: Risk for sensitisation
2-methoxy-1-methylethyl acetate	TWA: 150 ppm 8 hours. Form: Risk for sensitisation Ministry of Labor (France, 10/2016). Absorbed through skin. Notes: Labour Act , Art 4412-149 (Regulatory binding exposure limits)
	STEL: 550 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Reaction mass of ethylbenzene and 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
ethyl acetate	Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 734 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 200 ppm 8 hours. Form: Risk for sensitisation Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 1468 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
4-methylpentan-2-one	Ministry of Labor (France, 3/2020). Notes: Binding regulatory
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SECTION 8: Exposure controls/pe	ersonal protection
isopropyl acetate	limit values (article R. 4412-149 of the Labor Code)STEL: 208 mg/m³ 15 minutes. Form: Risk for sensitisationSTEL: 50 ppm 15 minutes. Form: Risk for sensitisationTWA: 83 mg/m³ 8 hours. Form: Risk for sensitisationTWA: 20 ppm 8 hours. Form: Risk for sensitisationMinistry of Labor (France, 3/2020). Notes: Indicative limitvalues (circular)STEL: 1140 mg/m³ 15 minutes.
	STEL: 300 ppm 15 minutes. TWA: 950 mg/m ³ 8 hours. TWA: 250 ppm 8 hours.
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 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
cyclohexanone	Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 81.6 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 20 ppm 15 minutes. Form: Risk for sensitisation TWA: 40.8 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 10 ppm 8 hours. Form: Risk for sensitisation
methanol	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Indicative limit values (circular) STEL: 1300 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 1000 ppm 15 minutes. Form: Risk for sensitisation Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 260 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 200 ppm 8 hours. Form: Risk for sensitisation
procedures atmosphere or of the ventilation protective equi the following: I the assessmen limit values and atmospheres - of exposure to (Workplace atmospheres -	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory ipment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for nt of exposure by inhalation to chemical agents for comparison with d measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures rement of chemical agents) Reference to national guidance

DNELs/DMELs

Product/ingredient na	ame Type	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Long term	102.34 mg/	General	Local
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SECTION 8: Exposure controls/personal protection

ECTION 8: Exposure of			m ³	population	
	DNEL	Inhalation	m ³ 480 mg/m ³	population Workers	Local
	DINEL	Long term	400 mg/m	VUIKEIS	LUCAI
	DNEL		859.7 mg/	General	Local
	DINLL	Inhalation	m ³	population	LUCAI
	DNEL		859.7 mg/	General	Systemic
		Inhalation	m ³	population	Oysternic
	DNEL		960 mg/m ³	Workers	Local
	DINEL	Inhalation	900 mg/m	VUIKEIS	LUCAI
	DNEL		960 mg/m ³	Workers	Systemic
	DINEL		900 mg/m	VUIKEIS	Systemic
Depation many of athylhonzons	and DNEL	Inhalation	1.6 mg/kg	General	Systemic
Reaction mass of ethylbenzene xylene		Long term Oral	1.6 mg/kg bw/day	population	Systemic
xylerie	DNEL	Long torm	14.8 mg/m ³	General	Systemic
	DINEL	0	14.0 mg/m		Systemic
		Inhalation	77	population	Curatamia
	DNEL	0	77 mg/m³	Workers	Systemic
		Inhalation	100	Comoral	Curatamia
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
	DUE		bw/day	population	
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		Chart to me	bw/day	\//outraine	
	DNEL		289 mg/m ³	Workers	Local
		Inhalation			
	DNEL		289 mg/m ³	Workers	Systemic
-4		Inhalation	4.5		O. a tanai
ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	63 mg/kg	Workers	Systemic
			bw/day		
	DNEL	0	367 mg/m ³	General	Local
		Inhalation		population	
	DNEL	0	367 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL		734 mg/m ³	General	Local
		Inhalation		population	
	DNEL		734 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	0	734 mg/m ³	Workers	Local
		Inhalation	704		
	DNEL	0	734 mg/m ³	Workers	Systemic
		Inhalation	4400		
	DNEL		1468 mg/	Workers	Local
		Inhalation	m ³		
	DNEL		1468 mg/	Workers	Systemic
		Inhalation	m ³		
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
	1		kg bw/day		
			14.7 mg/m ³	General	Local
	DNEL		1 iiig/iii		
		Inhalation	_	population	
	DNEL DNEL	Inhalation Long term	14.7 mg/m ³	population General	Systemic
	DNEL	Inhalation Long term Inhalation	14.7 mg/m³	population General population	
		Inhalation Long term Inhalation Long term	_	population General	Systemic Local
	DNEL DNEL	Inhalation Long term Inhalation Long term Inhalation	14.7 mg/m ³ 83 mg/m ³	population General population Workers	Local
	DNEL	Inhalation Long term Inhalation Long term Inhalation Long term	14.7 mg/m³	population General population	
	DNEL DNEL DNEL	Inhalation Long term Inhalation Long term Inhalation Long term Inhalation	14.7 mg/m ³ 83 mg/m ³ 83 mg/m ³	population General population Workers Workers	Local Systemic
	DNEL DNEL	Inhalation Long term Inhalation Long term Inhalation Long term Inhalation	14.7 mg/m ³ 83 mg/m ³	population General population Workers	Local
	DNEL DNEL DNEL DNEL	Inhalation Long term Inhalation Long term Inhalation Long term Inhalation	14.7 mg/m ³ 83 mg/m ³ 83 mg/m ³ 155.2 mg/	population General population Workers Workers General	Local Systemic
e of issue/Date of revision e of previous issue	DNEL DNEL DNEL	Inhalation Long term Inhalation Long term Inhalation Long term Inhalation Short term	14.7 mg/m ³ 83 mg/m ³ 83 mg/m ³	population General population Workers Workers	Local Systemic



SECTION 8: Exposure controls/personal protection	
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	DNEL	Long term Dermal	8 mg/kg	General	Systemic
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	208 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	208 mg/m ³	Workers	Local
		Inhalation		population	
	DNEL	Inhalation Long term	104 mg/m³	population General	Local
	DNEL	Long term	74.3 mg/m ³	General	Systemic
		-	kg bw/day		
	DNEL	Long term Dermal	bw/day 13.67 mg/	population Workers	Systemic
nethyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
	DNEL	Short term Inhalation	850 mg/m ³	Workers	Systemic
		Inhalation Short term	850 ma/m ³	population Workers	Systemic
	DNEL	Short term	510 mg/m ³	General	Systemic
		Inhalation	510 mc/m3	Constal	Sustamia
	DNEL	Long term Inhalation	420 mg/m ³	vvorkers	Systemic
	DNEL	Inhalation Long term	420 mg/m ³	Workers	Systemic
	DNEL	Long term	420 mg/m ³	Workers	Local
		Inhalation		population	
	DNEL	Long term	252 mg/m³	General	Systemic
		Inhalation	202 mg/m	population	
	DNEL	Long term	bw/day 252 mg/m³	General	Local
	DNEL	Long term Dermal	43 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	26 mg/kg bw/day	General population	Systemic
		-	bw/day	population	
sopropyl acetate	DNEL	Inhalation Long term Oral	26 mg/kg	General	Systemic
	DNEL	Short term	208 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation	m³	population	
	DNEL				Systemic
	DNEL				Systemic

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SECTION 8: Exposure controls/personal protection						
		Inhalation		population		
	DNEL	Short term	20 mg/m ³	General	Systemic	
		Inhalation	0	population		
	DNEL	Short term	40 mg/m ³	General	Local	
		Inhalation	J. J	population		
	DNEL	Long term	40 mg/m ³	Workers	Local	
		Inhalation	J. J			
	DNEL	Long term	40 mg/m ³	Workers	Systemic	
		Inhalation	J. J		-	
	DNEL	Short term	80 mg/m³	Workers	Local	
		Inhalation	J. J			
	DNEL	Short term	80 mg/m ³	Workers	Systemic	
		Inhalation	J. J		-	
methanol	DNEL	Short term Dermal	8 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Long term Dermal	8 mg/kg	General	Systemic	
		Ū	bw/day	population		
	DNEL	Short term Dermal	40 mg/kg	Workers	Systemic	
			bw/day			
	DNEL	Long term Dermal	40 mg/kg	Workers	Systemic	
		Ū	bw/day			
	DNEL	Short term	50 mg/m ³	General	Local	
		Inhalation	-	population		
	DNEL	Long term	50 mg/m³	General	Local	
		Inhalation	_	population		
	DNEL	Short term	50 mg/m³	General	Systemic	
		Inhalation	-	population		
	DNEL	Long term	50 mg/m³	General	Systemic	
		Inhalation	_	population	-	
	DNEL	Short term	260 mg/m ³	Workers	Local	
		Inhalation	-			
	DNEL	Long term	260 mg/m ³	Workers	Local	
		Inhalation				
	DNEL	Short term	260 mg/m ³	Workers	Systemic	
		Inhalation			-	
	DNEL	Long term	260 mg/m ³	Workers	Systemic	
		Inhalation	_			

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 measur	res	<u>i</u>					
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							
Date of issue/Date of revision		: 1-10-2022	Version :1				
Date of previous issue		: No previous validation	11/23	AkzoNobel			

SECTION 8: Exposure controls/personal 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

Date of issue/Date of revision	: 1-10-2022	Version : 1	
Flammability (solid, gas)	: Not available.		
Evaporation rate	: Not available.		
Flash point	: Closed cup: 28°C		
Initial boiling point and boiling range	: Not available.		
Melting point/freezing point	: Not available.		
рН	: Not available.		
Odor threshold	: Not available.		
Odor	: Characteristic.		
Color	: Purple.		
Physical state	: Liquid.		
<u>Appearance</u>			

Date of previous issue



SECTION 9: Physical and chemical properties

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: 3.96 (Air = 1)
Density	:	0.999 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): 10.01 cm²/s Kinematic (40°C): 1.01 cm²/s

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m ³	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Reaction mass of	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
ethylbenzene and xylene				
ethyl acetate	LC50 Inhalation Gas.	Rat	1600 ppm	8 hours
-	LC50 Inhalation Vapor	Mouse	45 g/m ³	2 hours
	LD50 Intraperitoneal	Mouse	709 mg/kg	-
	LD50 Oral	Guinea pig	5.5 g/kg	-
	LD50 Oral	Guinea pig	5500 mg/kg	-
	LD50 Oral	Mouse	4.1 g/kg	-
	LD50 Oral	Mouse	4100 mg/kg	-
e of issue/Date of revision	: 1-10-2022	Version	:1	
e of previous issue	: No previous validation	13/23		AkzoNob

SECTION 11: Toxicological information

4-methylpentan-2-one LD50 Oral Rat 6520 mg/kg - LD50 Subcutaneous Guinea pig 3 g/kg - LD50 Intrapentoneal Rat 6520 mg/kg - LD50 Intrapentoneal Rat 400 mg/kg - LD50 Intrapentoneal Rat 400 mg/kg - LD50 Oral Rat 750 mg/kg - LD50 Oral Rabit 59 kg - LD50 Oral Rabit 75 g/kg - LD50 Intrapentoneal Guinea pig 1800 mg/kg - LD50 Intrapentoneal Mouse 14500 mg/m 4 hours LD50 Intrapentoneal Guinea pig 1800 mg/kg - LD50 Intrapentoneal Mouse 145 mg/kg - LD50 Oral Rabit 75 g/kg - LD50 Oral Rabit 75 g/kg - LD50 Intrapentoneal Mouse 1362 mg/kg - LD50 Intrapentoneal Mouse 1362 mg/kg - LD50 Oral Rabit 8700 mg/kg - LD50 Oral Rabit 8700 mg/kg - LD50 Oral Rat 1320 mg/kg - LD50 Uncutaneous Mouse 5954 mg/kg - LD50 Subcutaneous Rat 772 mg/kg - LD50 Subcutaneous Rat 772 mg/kg - LD50 Intrapentoneal Rabit 1 mL/kg - LD50 Intrapentoneal Rabit 1 mL/kg - LD50 Intrapentoneal Rabit 1 mu/kg - LD50 Intrapentoneal Rabit 1 f340 mg/kg - LD50 Intrapentonea	SECTION 11: TOXICOL	ogical information			
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LC50 Inhalation VaporRabbit81000 mg/m³14 hoursLD50 DermalRabbit15800 mg/kg-LD50 IntraperitonealRat7529 mg/kg-LD50 IntravenousMouse4710 mg/kg-LD50 IntravenousRat2131 mg/kg-LD50 OralRat5600 mg/kg-LD50 SubcutaneousMouse9800 mg/kg-		LC50 Inhalation Gas.	Rat	64000 ppm	8 hours
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LD50 OralRat5600 mg/kg-LD50 SubcutaneousMouse9800 mg/kg-					-
LD50 Subcutaneous Mouse 9800 mg/kg -					-
					-
	Conclusion/Summarv	: Not available.			

Conclusion/Summary

: Not available.

Irritation/Corrosion



SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Reaction mass of	Eyes - Mild irritant	Rabbit	-	87 mg	-
ethylbenzene and xylene		Dahkit		04 h a una 5	
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat		mg 8 hours 60 UI	_
	Skin - Moderate irritant	Rabbit		24 hours 500	-
		Rubbit		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	-
		B 11 %		mg	
isopropyl acetate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit		mg 24 hours 500	
		Rabbit	-	mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit	_	mg 40 mg	
	Skin - Moderate irritant	Rabbit		24 hours 20	-
		T CODDIT		mg	
Conclusion/Summary	: Not available.			0	
Sensitization					
	N 1 1 1				
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
<u>Carcinogenicity</u>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
• •					
Conclusion/Summary	: Not available.				
<u>Feratogenicity</u>					
Conclusion/Summary	: Not available.				

Specific target organ toxicity (single exposure)

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

Date of issue/Date of revision	: 1-10-2022	Version : 1	
Date of previous issue	: No previous validation	15/23	AkzoNobe

SECTION 11: Toxicological information

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-
Aspiration hazard			

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

Information on the likely routes of exposure	: Not available.	
Potential acute health effects		
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.	
	sical, 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.	
Delayed and immediate effect	ts and also chronic effects from short and long term exposure	
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	

Potential delayed effects	:	Not available.
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Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.				
General	: Prolonged or repeated conta or dermatitis.	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.				
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SECTION 11: Toxicological information

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

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

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

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
Reaction mass of ethylbenzene and xylene	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 1600000 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 175000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 560000 µg/l Fresh water	Daphnia - Daphnia cuculata Daphnia - Daphnia magna	48 hours
	Acute LC50 230000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 295000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 230000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Acute LC50 212500 µg/l Fresh water		96 hours
	Acute LC50 464000 µg/i Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	90 110015
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
	Acute 2000 420000 µg/T Test water	Juvenile (Fledgling, Hatchling, Weanling)	50 110013
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 dovo
	Chronic NOEC 12 mg/l Fresh water Chronic NOEC 2400 µg/l Fresh water	Daphnia - Daphnia magna	21 days 21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
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 - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 dov/0
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	21 days 33 days
isopropyl acetate	Acute LC50 110 mg/l Marine water	Crustaceans - Artemia salina	48 hours
methyl methacrylate	Acute LC50 191000 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 159100 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 160200 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 150000 µg/l Fresh water	Fish - Pimephales promelas - Adult	96 hours
	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas - Adult	96 hours
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ECTION 12: Eco	logical information		
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas	72 hours
		reinhardtii - Exponential growth	
		phase	
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
nethanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 24500000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute EC50 22200 mg/l Fresh water	Daphnia - Daphnia obtusa - Neonate	48 hours
	Acute EC50 12835 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 12700000 µg/l Fresh water		96 hours
	Acute EC50 13000000 µg/l Fresh water	0,	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 15.32 g/L Fresh water	Fish - Oreochromis mossambicus - Adult	96 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 71 ppm Fresh water	Algae - Heterosigma akashiwo	96 hours
	Chronic NOEC 1400 ppm Fresh water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 410 ppm Fresh water	Algae - Prorocentrum minimum	96 hours
	Chronic NOEC 24 ppm Fresh water	Algae - Eutreptiella sp.	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
2-methoxy-1-methylethyl acetate	1.2	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
ethyl acetate	0.68	30	low
4-methylpentan-2-one	1.9	-	low
isopropyl acetate	1.3	-	low
methyl methacrylate	1.38	-	low
4-morpholinecarbaldehyde	-	<1.9	low
cyclohexanone	0.86	-	low
methanol	-0.77	<10	low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

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: Transport information

	A	ADR/RID	IMDG	;	ΙΑΤΑ
14.1 UN number	UN1263		UN1263		UN1263
14.2 UN proper shipping name	PAINT		PAINT		PAINT
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			U SEMI-GLUSS BASE FURFLE 180		
SECTION 14:	Transpo	ort inforr	mation		
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	ition			· · · · · · · · · · · · · · · · · · ·	
ADR/RID IMDG		packagir Tunnel : <u>Emerge</u> <u>Viscous</u>	ngs up to 450 L according to code (D/E) ncy schedules F-E, _S-E_	s 3 viscous liquid is not subject t	Ū
14.6 Special precau user	utions for	upright a	•	always transport in closed contains transporting the product kno	
14.7 Transport in b according to IMO instruments	ulk	: Not applicable.			

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

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 Mixture	: Not applicable.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed



	FRS-40 SEMI-GLOSS BASE PURPLE 180715/ 4074	
SECTION 15: Regulate	ory information	
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed	
Ozone depleting substances Not listed.	<u>s (1005/2009/EU)</u>	
Prior Informed Consent (PIC Not listed.	<u>C) (649/2012/EU)</u>	
<u>Seveso Directive</u> This product is controlled unde <u>Danger criteria</u>	er the Seveso Directive.	
Category		
P5c		
National regulations		
Industrial use	: The information contained in this safety data sheet doe own assessment of workplace risks, as required by oth legislation. The provisions of the national health and sa to the use of this product at work.	ner health and safety
Social Security Code, Articles L 461-1 to L 461-7	: n-butyl acetate Reaction mass of ethylbenzene and xylene ethyl acetate 4-methylpentan-2-one isopropyl acetate methyl methacrylate cyclohexanone methanol	RG 84 RG 4bis, RG 84 RG 84 RG 84 RG 84 RG 82 RG 84 RG 84 RG 84
Reinforced medical surveillance	: Decree n ° 2012-135 of January 30, 2012 relating to the occupational medicine: not applicable	e organization of
International regulations		
Chemical Weapon Conventio Not listed.	n List Schedules I, II & III Chemicals	
<u>Montreal Protocol</u> Not listed.		
Stockholm Convention on Pe Not listed.	ersistent Organic Pollutants	
Rotterdam Convention on Pri Not listed.	ior Informed Consent (PIC)	
UNECE Aarhus Protocol on P Not listed.	OPs 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

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

STOT SE 1 STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	EXPOSURE) - Category 2
STOT RE 2	SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
Skin Irrit. 2 Skin Sens. 1	SKIN CORROSION/IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Carc. 2	CARCINOGENICITY - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Aquatic Chronic 3	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3
Acute Tox. 3 Acute Tox. 4	ACUTE TOXICITY - Category 3

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SECTION 16: Other information

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Unique ID	:

Notice to reader

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

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