

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

SAFETY DATA SHEET

FRS-40/AM SEMI-GLOSS BASE JET BLACK RAL 9005

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

1.1	Product	identifier

Product name SDS code : FRS-40/AM SEMI-GLOSS BASE JET BLACK RAL 9005 : 40209005B

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

	Identified uses	
Paint. Professional use Industrial use		
	Uses advised against	
All other uses		
	. Colvert have conting for interior was	

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	: +43 1 406 43 43		
<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 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.

2.2 Label elements

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FRS-40/AM SEMI-GLOSS BASE JET BLACK RAL 9005			
SECTION 2: Hazards identification			
Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	Flammable liquid and vapor. May cause drowsiness or dizziness.	
Precautionary statements			
Prevention	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor.	
Response	:	IF INHALED: Call a POISON CENTER or doctor if you feel unwell.	
Storage	:	Store in a well-ventilated place. Keep container tightly closed. Keep cool.	
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	:	n-butyl acetate	
Supplemental label elements	:	Contains methyl methacrylate. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.	
Special packaging requirem	en	ts	
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

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	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312	[1] [2]
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	EC: 905-588-0		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-methylpentan-2-one	EC: 203-550-1	<1	Flam. Liq. 2, H225	[1] [2]
	CAS: 108-10-1		Acute Tox. 4, H332	
	Index: 606-004-00-4		Eye Irrit. 2, H319	
			Carc. 2, H351	
			STOT SE 3, H336	
		<0.0	EUH066	[1] [2]
nethyl methacrylate	REACH #:	≤0.3	Flam. Liq. 2, H225	[1][2]
	01-2119452498-28 EC: 201-297-1		Skin Irrit. 2, H315 Skin Sens. 1, H317	
	CAS: 80-62-6		STOT SE 3, H335	
	Index: 607-035-00-6		5101 SE 5, 11555	
cyclohexanone	REACH #:	≤0.3	Flam. Liq. 3, H226	[1] [2]
Sycionexanone	01-2119453616-35	-0.0	Acute Tox. 4, H332	
	EC: 203-631-1		710010 107. 4, 11002	
	CAS: 108-94-1			
	Index: 606-010-00-7			
Hydrocarbons, C11-C14, n-	REACH #:	≤0.3	Asp. Tox. 1, H304	[1]
alkanes, isoalkanes, cyclics, <2%	01-2119456620-43		EUH066	
aromatics	EC: 926-141-6			
			See Section 16 for	
			the full text of the H	
			statements declared	
			above.	

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

<u>Type</u>

[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.

SECTION 4: First aid measures		
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

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

Contains methyl methacrylate. May produce an allergic reaction.

Over-exposure signs/symptoms

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

5.1 Extinguishing media				
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.			
Unsuitable extinguishing media	: Do not use water jet.			
5.2 Special hazards arising f	rom the substance or mixture			
Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.			
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides			
5.3 Advice for firefighters				
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.			
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	otective 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 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.



SECTION 6: Accidental release measures

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

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.
solutions	



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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		
n-butyl acetate		Regulation on Limit Values - MAC (Austria, 9/2018). CEIL: 480 mg/m ³ 15 minutes. CEIL: 100 ppm 15 minutes. TWA: 480 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
2-methoxy-1-methylethyl acetate		Regulation on Limit Values - MAC (Austria, 9/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. CEIL: 100 ppm, 8 times per shift, 5 minutes. CEIL: 550 mg/m ³ , 8 times per shift, 5 minutes.
Reaction mass of ethylbenzene	and xylene	Regulation on Limit Values - MAC (Austria, 9/2018). Absorbed through skin. PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ , 4 times per shift, 8 hours. TWA: 50 ppm, 4 times per shift, 8 hours.
4-methylpentan-2-one		Regulation on Limit Values - MAC (Austria, 9/2018). Absorbed through skin. PEAK: 208 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 83 mg/m ³ , 4 times per shift, 8 hours. TWA: 20 ppm, 4 times per shift, 8 hours.
methyl methacrylate		Regulation on Limit Values - MAC (Austria, 9/2018). Skin sensitizer. CEIL: 420 mg/m ³ , 8 times per shift, 5 minutes. CEIL: 100 ppm, 8 times per shift, 5 minutes. TWA: 210 mg/m ³ , 8 times per shift, 8 hours. TWA: 50 ppm, 8 times per shift, 8 hours.
cyclohexanone		Regulation on Limit Values - MAC (Austria, 9/2018). Absorbed through skin. PEAK: 80 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 20 mg/m ³ , 2 times per shift, 8 hours. TWA: 5 ppm, 2 times per shift, 8 hours.
Recommended monitoring : procedures	atmosphere or l of the ventilation protective equip the following: E the assessment limit values and atmospheres - 0 of exposure to 0 (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 European 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



SECTION 8: Exposure controls/personal protection Product/ingredient name Value Population Effects Туре Exposure n-butyl acetate DNEL 3.4 mg/kg Systemic Long term Oral General population bw/day DNEL 3.4 mg/kg General Systemic Long term Dermal population bw/day DNEL Long term Dermal 7 mg/kg Workers Systemic bw/day DNEL Long term 12 mg/m³ General Systemic Inhalation population DNEL Long term 48 mg/m³ Workers Systemic Inhalation DNEL Long term 102.34 mg/ General Local Inhalation population m³ DNEL Long term 480 mg/m³ Workers Local Inhalation DNEL Short term 859.7 mg/ General Local Inhalation population m³ DNEL Short term 859.7 mg/ General Systemic Inhalation population m³ DNEL 960 mg/m³ Workers Local Short term Inhalation DNEL Systemic Short term 960 mg/m³ Workers Inhalation DNEL Reaction mass of ethylbenzene and Long term Oral 1.6 mg/kg General Systemic bw/day population xylene DNEL Long term 14.8 mg/m³ General Systemic Inhalation population DNEL Long term 77 mg/m³ Workers Systemic Inhalation DNEL Long term Dermal 108 mg/kg Systemic General bw/day population DNEL Long term Dermal 180 mg/kg Workers Systemic bw/day 289 mg/m³ DNEL Short term Local Workers Inhalation DNEL 289 mg/m³ Short term 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 DNEL Local Long term 14.7 mg/m³ General Inhalation population DNEL Long term 14.7 mg/m³ General Systemic population Inhalation DNEL Long term 83 mg/m³ Workers Local Inhalation DNEL Long term 83 mg/m³ Workers Systemic Inhalation DNEL Short term 155.2 mg/ General Local population Inhalation m³ DNEL Short term 155.2 mg/ General Systemic population Inhalation m³ DNEL 208 mg/m³ Workers Short term Local Inhalation DNEL 208 mg/m³ Short term Workers Systemic Inhalation methyl methacrylate DNEL Long term Dermal 8.2 mg/kg General Systemic bw/day population : 6-10-2022 Date of issue/Date of revision Version :1

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Date of previous issue

: No previous validation



SECTION 8: Exposure controls/personal protection					
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	74.3 mg/m ³		Systemic
	DNEL	Inhalation Long term	104 mg/m ³	population General	Local
	DNEL	Inhalation Long term	208 mg/m ³	population Workers	Local
	DNEL	Inhalation Long term	208 mg/m ³	Workers	Systemic
cyclohexanone	DNEL	Inhalation Short term Dermal	1 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 1 mg/kg	population General	Systemic
	DNEL	Short term Oral	bw/day 1.5 mg/kg	population General	Systemic
	DNEL	Long term Oral	bw/day 1.5 mg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 4 mg/kg	population Workers	Systemic
	DNEL	Long term Dermal	bw/day 4 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 10 mg/m³	General	Systemic
	DNEL	Inhalation Long term	20 mg/m ³	population General	Local
	DNEL	Inhalation Short term	20 mg/m ³	population General	Systemic
	DNEL	Inhalation Short term	40 mg/m ³	population General	Local
	DNEL	Inhalation Long term	40 mg/m ³	population Workers	Local
	DNEL	Inhalation	_	Workers	Systemic
		Long term Inhalation	40 mg/m ³		
	DNEL	Short term Inhalation	80 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	80 mg/m³	Workers	Systemic

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	<u>es</u>		
Hygiene measures	: Wash hands, forearms and face the before eating, smoking and using th Appropriate techniques should be us Wash contaminated clothing before safety showers are close to the work	e lavatory and at the end of t sed to remove potentially cor reusing. Ensure that eyewa	the working period. ntaminated clothing.
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: safety glasses with side-shields.		
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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

Date of previous issue	: No previous validation	10/19	AkzoNobel
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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	: Black.		
Physical state	: Liquid.		
<u>Appearance</u>			

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: 4.07 (Air = 1)
Density	:	1.139 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): 9.66 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 ethylbenzene and xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
4-methylpentan-2-one	LD50 Intraperitoneal	Guinea pig	800 mg/kg	-
	LD50 Intraperitoneal	Mouse	268 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Oral	Guinea pig	1600 mg/kg	-
	LD50 Oral	Mouse	1900 mg/kg	-
	LD50 Oral	Mouse	2850 mg/kg	-
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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	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50 Intraperitoneal	Guinea pig	930 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Oral	Mouse	1400 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uL/kg	-
	LD50 Subcutaneous	Rat	2170 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Reaction mass of	Eyes - Mild irritant	Rabbit	-	87 mg	-
ethylbenzene and xylene		D. L. L		0.4 1	
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat		mg 8 hours 60 UI	
	Skin - Moderate irritant	Rabbit		24 hours 500	-
		T GODIC		mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
		D 11 1		mg	
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Eyes - Severe irritant	Rabbit		ug 20 mg	
	Skin - Mild irritant	Rabbit		500 mg	-
		Rabbit		ooo mg	
Conclusion/Summary	: Not available.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				

Conclusion/Summary : Not ava Carcinogenicity



SECTION 11: Toxicological information

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

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

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

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>s</u>
Eye contact	: No known significant effects or critical hazards.
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.
Eye contact	 ysical, chemical and toxicological characteristics No specific data. Adverse symptome may include the following:
	drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

<u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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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 eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
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	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene and xylene			
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
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
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
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	Acute LC50 527000 μg/l Fresh water Acute LC50 732000 μg/l Fresh water	Fish - Pimephales promelas Fish - Pimephales promelas	96 hours 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-meťhoxy-1-methylethyl acetate	1.2	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
4-methylpentan-2-one	1.9	-	low
methyl methacrylate	1.38	-	low
cyclohexanone	0.86	-	low

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

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

<u>Product</u>		
Methods of disposal	he requirements of environmental pro any regional local authority requirement lable products via a licensed waste di	by-products should at all times comply otection and waste disposal legislation
Hazardous waste	classification of the product may meet	the criteria for a hazardous waste.
Disposal considerations	ot allow to enter drains or watercourse ose of according to all federal, state a product is mixed with other wastes, t er apply and the appropriate code sho urther information, contact your local o	nd local applicable regulations. the original waste product code may no uld be assigned.
Europoan wasto catalogu		

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		ardous substances
Packaging	<u>.</u>		
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SECTION 13: Disposal considerations

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

	UN1263	UN1263
INT		
	PAINT	PAINT
	3	3
	III	III
	No.	No.
_		

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

•			
-	-	gislation specific for the substa	nce or mixture
EU Regulation (EC) No. 19	· · · · ·		
	tances subject to authoriz	ation	
Annex XIV None of the components :	are listed		
Substances of very high			
None of the components			
Annex XVII - Restrictions			
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	- · · · · · · · · · · · · · · · · · · ·		
Other EU regulations			
VOC	•	ective 2004/42/EC on VOC apply to echnical data sheet for further info	•
VOC for Ready-for-Use Mixture	: Not applicable.		
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed -		
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed		
Ozone depleting substan	nces (1005/2009/EU)		
Not listed.			
Prior Informed Consent ((DIC) (6/19/2012/EU)		
Not listed.			
Savaaa Diraatiya			
<u>Seveso Directive</u> This product is controlled u	under the Soucea Directive		
Danger criteria			
Category			
P5c			
National regulations			
Industrial use	own assessment of w	ained in this safety data sheet does orkplace risks, as required by othe sions of the national health and saf luct at work.	er health and safety
VbF class	: A II Very dangerous flam	nable liquid.	
Limitation of the use of organic solvents	: Permitted.		
International regulations			
Chemical Weapon Conven	ntion List Schedules I, II 8	III Chemicals	
Not listed.			
Montreal Protocol Not listed.			
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SECTION 15: Regulatory information	
Stockholm Convention on Persistent Organic Pollutants	
Not listed.	
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.	
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.	
Inventory list	

: Not determined. Europe

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

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
	VPVB = Very Persistent and Very Bloaccumulative

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
STOT SE 3, H336	Calculation method

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.
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]



SECTION 16: Other	r information	
Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
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Notice to reader

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