## **AkzoNobel**

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 RED ORANGE RAL 2001

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

1.1 Product identifier

Product name : FRS-40 SEMI-GLOSS BASE RED ORANGE RAL 2001

**SDS code** : 40902001B

#### 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

**Product use** : Solvent borne coating for interior use.

#### 1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex

France

e-mail address of person

: PSRA PAMIERS@akzonobel.com

responsible for this SDS

#### 1.4 Emergency telephone number

#### National advisory body/Poison Center

**Telephone number** : +33 (0)1 40 05 48 48

**Supplier** 

**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

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue : 21-10-2022 1/19 AkzoNobel

#### **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

Supplemental label

elements

: Contains methyl methacrylate. May produce an allergic reaction. Repeated

exposure may cause skin dryness or cracking.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

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

: n-butyl acetate

#### **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
r-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	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Reaction mass of ethylbenzene	REACH #:	<10	Flam. Liq. 3, H226	[1] [2]

Date of issue/Date of revision :1-11-2022 Version :1.02

Date of previous issue :21-10-2022 2/19 AkzoNobel

and xylene	01-2119488216-32		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	
methyl methacrylate	REACH #:	≤0.3	Flam. Liq. 2, H225	[1] [2]
	01-2119452498-28		Skin Irrit. 2, H315	
	EC: 201-297-1 CAS: 80-62-6		Skin Sens. 1, H317 STOT SE 3, H335	
	Index: 607-035-00-6		0.0.020,1.000	
cyclohexanone	REACH #:	≤0.3	Flam. Liq. 3, H226	[1] [2]
	01-2119453616-35 CAS: 108-94-1 Index: 606-010-00-7		Acute Tox. 4, H332	
Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119456620-43 EC: 926-141-6	≤0.3	Asp. Tox. 1, H304 EUH066	[1]
			See Section 16 for the full text of the H statements declared above.	

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

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

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.

Date of issue/Date of revision: 1-11-2022Version: 1.02Date of previous issue: 21-10-20223/19AkzoNobel

#### **SECTION 4: First aid measures**

#### 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** : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

dryness cracking

**Ingestion** : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

Date of issue/Date of revision: 1-11-2022Version: 1.02

Date of previous issue : 21-10-2022 4/19 AkzoNobel

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

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

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 nitrogen oxides

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, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for 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.

: 1-11-2022 Date of issue/Date of revision Version: 1.02

**AkzoNobel** Date of previous issue :21-10-2022 5/19

#### **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

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue : 21-10-2022 6/19 AkzoNobel

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

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

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
p-butyl acetate	Ministry of Labor (France, 3/2020). Notes: Indicative limit values (circular)  STEL: 940 mg/m³ 15 minutes. Form: Risk for sensitisation STEL: 200 ppm 15 minutes. Form: Risk for sensitisation TWA: 710 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 150 ppm 8 hours. Form: Risk for sensitisation
2-methoxy-1-methylethyl acetate	Ministry of Labor (France, 10/2016). Absorbed through skin. Notes: Labour Act , Art 4412-149 (Regulatory binding exposure limits)  STEL: 550 mg/m³ 15 minutes.  STEL: 100 ppm 15 minutes.  TWA: 275 mg/m³ 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/m³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
methyl methacrylate	Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL: 410 mg/m³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 205 mg/m³ 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/m³ 15 minutes. Form: Risk for sensitisation STEL: 20 ppm 15 minutes. Form: Risk for sensitisation TWA: 40.8 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 10 ppm 8 hours. Form: Risk for sensitisation

## Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Date of issue/Date of revision: 1-11-2022Version: 1.02Date of previous issue: 21-10-20227/19AkzoNobel

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
<mark>ਯ-</mark> butyl acetate	DNEL	Long term Oral	3.4 mg/kg	General	Systemic
	5.151		bw/day	population	
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
	DATE		bw/day	population	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	12 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Long term	102.34 mg/	General	Local
	DIVLL	Inhalation	m <sup>3</sup>	population	Local
	DNEL	Long term	480 mg/m <sup>3</sup>	Workers	Local
	DIVLE	Inhalation	1400 mg/m	VVOIRCIS	Local
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
Reaction mass of ethylbenzene and	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
xylene			bw/day	population	
	DNEL	Long term	14.8 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	DNEI	Ch and tames	bw/day	VV/ a wis a wa	Laggi
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	200 mg/m³	Workers	Systemia
	DINEL	Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
metry metracrylate	DIVLL	Long term Dermai	bw/day	population	Oysternic
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
	DIVLL	Long term Dermai	kg bw/day	WORKEIS	Cysternic
	DNEL	Long term	74.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation	· · · · · · · · · · · · · · · · · · ·	population	, , , , , , , , , , , , , , , , , , , ,
	DNEL	Long term	104 mg/m <sup>3</sup>	General	Local
		Inhalation	]	population	
	DNEL	Long term	208 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	208 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
cyclohexanone	DNEL	Short term Dermal	1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	1.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	4 mg/kg	Workers	Systemic
			bw/day		
			1 / 100 01/1/01	Workers	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	VVOIKEIS	Systemic

Date of issue/Date of revision: 1-11-2022Date of previous issue: 21-10-2022

**AkzoNobel** 

Version: 1.02

8/19

SECTION 8: Exposure controls/personal protection						
DNEL	Long term Inhalation	10 mg/m³	General population	Systemic		
DNEL	Long term Inhalation	20 mg/m <sup>3</sup>	General population	Local		
DNEL	Short term Inhalation	20 mg/m <sup>3</sup>	General population	Systemic		
DNEL	Short term Inhalation	40 mg/m <sup>3</sup>	General population	Local		
DNEL	Long term Inhalation	40 mg/m <sup>3</sup>	Workers	Local		
DNEL	Long term Inhalation	40 mg/m <sup>3</sup>	Workers	Systemic		
DNEL	Short term Inhalation	80 mg/m³	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 measures**

#### 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: safety glasses with side-shields.

#### **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  $\ge 0.38$  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 ≥ 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.

Date of issue/Date of revision: 1-11-2022Version: 1.02Date of previous issue: 21-10-20229/19AkzoNobel

## SECTION 8: Exposure controls/personal protection

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

**Appearance** 

Physical state : Liquid. Color : Red.

Odor Characteristic. : Not available. **Odor threshold** На : Not available. Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: 28°C **Evaporation rate** : Not available. Flammability (solid, gas) : Not available.

Upper/lower flammability or

explosive limits

: Not available.

Vapor pressure : Not available.

: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Vapor density

Weighted average: 4.05 (Air = 1)

: 1.244 a/cm<sup>3</sup> Density

: Insoluble in the following materials: cold water. Solubility(ies)

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**Viscosity** : Kinematic (room temperature): 8.04 cm<sup>2</sup>/s

Kinematic (40°C): 1.01 cm<sup>2</sup>/s

: 1-11-2022 Date of issue/Date of revision Version: 1.02

**AkzoNobel** Date of previous issue :21-10-2022 10/19

## **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**

hours hours
hours
hours
hours
hours
hours
h

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue :21-10-2022 11/19 AkzoNobel

## **SECTION 11: Toxicological information**

**Conclusion/Summary** 

: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>ଜ-</mark> butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Reaction mass of ethylbenzene and xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Eyes - Severe irritant	Rabbit	_	ug 20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Conclusion/Summary

**Sensitization** 

Conclusion/Summary

: Not available.

: Not available.

**Mutagenicity** 

Conclusion/Summary

: Not available.

**Carcinogenicity** 

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue : 21-10-2022 12/19 AkzoNobel

## **SECTION 11: Toxicological information**

#### Potential acute health effects

**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.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**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 effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

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.

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue : 21-10-2022 13/19 AkzoNobel

## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
<mark>ӣ</mark> -butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
Reaction mass of ethylbenzene and xylene	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
methyl methacrylate	Acute LC50 191000 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 159100 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 160200 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 150000 μg/l Fresh water	Fish - Pimephales promelas - 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	72 hours
		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

Conclusion/Summary

: Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<mark>দ</mark> -butyl acetate	2.3	-	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
Reaction mass of	3.12	8.1 to 25.9	low
ethylbenzene and xylene			
methyl methacrylate	1.38	-	low
cyclohexanone	0.86	-	low

**AkzoNobel** 

#### 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.

Date of issue/Date of revision: 1-11-2022Version: 1.02Date of previous issue: 21-10-202214/19

## **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

#### **Product**

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**

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue : 21-10-2022 15/19 AkzoNobel

SECTION 14: Transport information			
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID : Viscous liquid exception This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code (D/E)

: **Emergency schedules** F-E, \_S-E **IMDG** 

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.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk

according to IMO instruments

: Not applicable.

### SECTION 15: Regulatory information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

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

: Not listed

prevention and control) -

Air

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### **Seveso Directive**

Date of issue/Date of revision : 1-11-2022 Version: 1.02 **AkzoNobel** Date of previous issue :21-10-2022 16/19

## SECTION 15: Regulatory information

This product is controlled under the Seveso Directive.

#### Danger criteria

Category

P<sub>5</sub>c

**National regulations** 

Industrial use : The information contained in this safety data sheet does not constitute the user's

own assessment of workplace risks, as required by other health and safety

legislation. The provisions of the national health and safety at work regulations apply

to the use of this product at work.

Social Security Code, : n-butyl acetate **RG 84** 

Articles L 461-1 to L 461-7 Reaction mass of ethylbenzene and xylene RG 4bis, RG 84

> methyl methacrylate **RG 82** cyclohexanone **RG 84**

Reinforced medical

: Decree n ° 2012-135 of January 30, 2012 relating to the organization of surveillance

occupational medicine: not applicable

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

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

**Assessment** 

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

: ATE = Acute Toxicity Estimate Abbreviations and

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. acronyms

1272/20081

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]

: 1-11-2022 Date of issue/Date of revision Version: 1.02

**AkzoNobel** Date of previous issue :21-10-2022 17/19

## **SECTION 16: Other information**

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 flormable liquid and vanor
1	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.
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]

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

Date of printing : 1 November 2022

Date of issue/ Date of : 1 November 2022

revision

**Unique ID** 

Date of previous issue : 21 October 2022

Version : 1.02

#### Notice to reader

#### FOR PROFESSIONAL USE ONLY

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

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

Date of issue/Date of revision: 1-11-2022Version: 1.02Date of previous issue: 21-10-202218/19AkzoNobel

**SECTION 16: Other information** 

Date of issue/Date of revision : 1-11-2022 Version : 1.02

Date of previous issue : 21-10-2022 19/19 AkzoNobel