

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 C2 METAL/ 3168

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

1.1 Product identifier

Product name : FRS-40 SEMI-GLOSS BASE RED C2 METAL/ 3168

**SDS code** : 40923168B

#### 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 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H336 Aquatic Chronic 3, H412

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.

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## **SECTION 2: Hazards identification**

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

#### 2.2 Label elements

Hazard pictograms







Signal word : Warning

**Hazard statements**: Flammable liquid and vapor.

May cause an allergic skin reaction. May cause drowsiness or dizziness. Suspected of causing cancer.

Harmful to aquatic life with long lasting effects.

**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 release to the environment.

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. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or

rash occurs: Get medical advice or attention.

**Storage**: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

**Hazardous ingredients** : n-butyl acetate

4-methylpentan-2-one

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate Hydroxyphenyl-benzotriazole derivatives

Polymeric Benzotriazole 4-morpholinecarbaldehyde methyl methacrylate

Supplemental label

elements

: 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 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.

: 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

1907/2006. Annex XIII

: None known.

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# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

| Product/ingredient name   | Identifiers  | %         | Regulation (EC) No.<br>1272/2008 [CLP]  | Туре    |
|---|--|-----------|---|---------|
| n-butyl acetate REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4  |  | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066   | [1] [2] |
| 2-ethoxy-1-methylethyl acetate  | Index: 607-025-00-1<br>EC: 259-370-9<br>CAS: 54839-24-6<br>Index: 603-177-00-8 | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1]     |
| 2-methoxy-1-methylethyl acetate   | REACH #:<br>01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6                 | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1] [2] |
| Reaction mass of ethylbenzene and xylene  | REACH #:<br>01-2119488216-32<br>EC: 905-588-0                                  | ≤6.5      | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| 4-methylpentan-2-one  | EC: 203-550-1<br>CAS: 108-10-1<br>Index: 606-004-00-4                          | ≤3        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H336<br>EUH066  | [1] [2] |
| aromatic hydrocarbons, C9   | REACH #:<br>01-2119455851-35<br>EC: 918-668-5<br>CAS: 128601-23-0              | <1        | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411<br>EUH066   | [1]     |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | REACH #:<br>01-2119491304-40<br>EC: 915-687-0<br>CAS: 1065336-91-5             | ≤1        | Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)  | [1]     |
| Hydroxyphenyl-benzotriazole derivatives   | REACH #:<br>01-0000015075-76<br>EC: 400-830-7<br>CAS: 104810-48-2              | <1        | Skin Sens. 1, H317<br>Aquatic Chronic 2,<br>H411  | [1]     |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%)  | REACH #:<br>01-2119458049-33<br>EC: 919-446-0                                  | <1        | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT RE 1, H372<br>(inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411<br>EUH066                                     | [1]     |
| Polymeric Benzotriazole   | CAS: 104810-47-1   | <1        | Skin Sens. 1, H317<br>Aquatic Chronic 2,<br>H411  | [1]     |
| 4-morpholinecarbaldehyde  | EC: 224-518-3  | ≤0.3      | Skin Sens. 1, H317  | [1]     |

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|---|---------------------|------|------------------------|---------|--|
|   | CAS: 4394-85-8      |      |                        |         |  |
| methyl methacrylate                               | REACH #:            | ≤0.3 | Flam. Liq. 2, H225     | [1] [2] |  |
|   | 01-2119452498-28    |      | Skin Irrit. 2, H315    |         |  |
|   | EC: 201-297-1       |      | Skin Sens. 1, H317     |         |  |
|   | CAS: 80-62-6        |      | STOT SE 3, H335        |         |  |
|   | Index: 607-035-00-6 |      |                        |         |  |
| cumene  | REACH #:            | ≤0.1 | Flam. Liq. 3, H226     | [1] [2] |  |
|   | 01-2119473983-24    |      | STOT SÉ 3, H335        |         |  |
|   | EC: 202-704-5       |      | Asp. Tox. 1, H304      |         |  |
|   | CAS: 98-82-8        |      | Aquatic Chronic 2,     |         |  |
|   | Index: 601-024-00-X |      | H411                   |         |  |
|   |                     |      | 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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

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

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## 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 Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, Hydroxyphenyl-benzotriazole derivatives, Polymeric Benzotriazole, 4-morpholinecarbaldehyde, 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:

irritation redness 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.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing

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

Unsuitable extinguishing

media

media

: Do not use water jet.

# 5.2 Special hazards arising from the substance or mixture

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# SECTION 5: Firefighting measures

Hazards from the substance or mixture : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

### 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). Water polluting material. May be harmful to the environment if released in large quantities.

## 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.

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 noncombustible, 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.

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# **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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof 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

# **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**

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

| Product/ingredient name                  | Exposure limit values  |
|--|--|
| n-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 |
| 4-methylpentan-2-one                     | Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL: 208 mg/m³ 15 minutes. Form: Risk for sensitisation STEL: 50 ppm 15 minutes. Form: Risk for sensitisation TWA: 83 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation                           |
| methyl methacrylate                      | Ministry of Labor (France, 3/2020). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL: 410 mg/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                         |
| cumene                                   | Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL: 250 mg/m³ 15 minutes. Form: Risk for sensitisation STEL: 50 ppm 15 minutes. Form: Risk for sensitisation TWA: 100 mg/m³ 8 hours. Form: Risk for sensitisation TWA: 20 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.

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## **DNELs/DMELs**

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

| Product/ingredient name           | Туре   | Exposure           | Value                  | Population          | Effects   |
|-----------------------------------|--------|--------------------|------------------------|---------------------|-----------|
| n-butyl acetate                   | DNEL   | Long term Oral     | 3.4 mg/kg              | General             | Systemic  |
| n-butyr acctate                   | DIVLL  | Long term oral     | bw/day                 | population          | Oysternio |
|                                   | DNEL   | Long term Dermal   | 3.4 mg/kg              | General             | Systemic  |
|                                   | DIVLE  | Long torm Borman   | bw/day                 | population          | Cyclonic  |
|                                   | DNEL   | Long term Dermal   | 7 mg/kg                | Workers             | Systemic  |
|                                   | DITE   | Zong tonin Zonnai  | bw/day                 | Works of the second | Cycloniic |
|                                   | DNEL   | Long term          | 12 mg/m <sup>3</sup>   | General             | Systemic  |
|                                   |        | Inhalation         | g,                     | population          |           |
|                                   | DNEL   | Long term          | 48 mg/m³               | Workers             | Systemic  |
|                                   |        | Inhalation         | 3                      |                     | ,         |
|                                   | DNEL   | Long term          | 102.34 mg/             | General             | Local     |
|                                   |        | Inhalation         | m³                     | population          |           |
|                                   | DNEL   | Long term          | 480 mg/m <sup>3</sup>  | Workers             | Local     |
|                                   |        | Inhalation         |                        |                     |           |
|                                   | 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  |
|                                   | DATE   | Inhalation         | 40.4                   |                     |           |
| 2-ethoxy-1-methylethyl acetate    | DNEL   | Long term Oral     | 13.1 mg/               | General             | Systemic  |
|                                   | סאובו  |                    | kg bw/day              | population          | 0         |
|                                   | DNEL   | Long term Dermal   | 62 mg/kg               | General             | Systemic  |
|                                   | DNEL   | Langtorm Dormal    | bw/day                 | population          | Cuatamia  |
|                                   | DINEL  | Long term Dermal   | 103 mg/kg<br>bw/day    | Workers             | Systemic  |
|                                   | DNEL   | Long term          | 181 mg/m³              | General             | Systemic  |
|                                   | DINEL  | Inhalation         | 101 mg/m               | population          | Systemic  |
|                                   | DNEL   | Long term          | 302 mg/m <sup>3</sup>  | Workers             | Systemic  |
|                                   | DIVLL  | Inhalation         | Joz mg/m               | WORKEIS             | Oysternio |
|                                   | DNEL   | Short term         | 365 mg/m <sup>3</sup>  | General             | Systemic  |
|                                   | DIVLE  | Inhalation         | ooo mg/m               | population          | Cyclonic  |
|                                   | DNEL   | Short term         | 608 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  |
|                                   | D. :-: |                    | bw/day                 | population          | 0         |
|                                   | DNEL   | Long term Dermal   | 180 mg/kg              | Workers             | Systemic  |
|                                   | רייי   | Ob                 | bw/day                 | M/ - wlos           |           |
|                                   | DNEL   | Short term         | 289 mg/m <sup>3</sup>  | Workers             | Local     |
|                                   | ראבי   | Inhalation         | 200 3                  | Morkers             | Cuetonsis |
|                                   | DNEL   | Short term         | 289 mg/m <sup>3</sup>  | Workers             | Systemic  |
| 4 mothylpontan 2 and              | חאבו   | Inhalation         | 4.2 ma/ka              | Conoral             | Systemic  |
| 4-methylpentan-2-one              | DNEL   | Long term Oral     | 4.2 mg/kg<br>bw/day    | General population  | Systemic  |
|                                   | DNEL   | Long term Dermal   | 4.2 mg/kg              | General             | Systemic  |
|                                   | DINEL  | Long term Dermal   | bw/day                 | population          | Оузісіпію |
|                                   | DNEL   | Long term Dermal   | 11.8 mg/               | Workers             | Systemic  |
|                                   | DIVLL  | Long tolli Dellial | kg bw/day              | TTOINGIG            | Systemio  |
|                                   | DNEL   | Long term          | 14.7 mg/m <sup>3</sup> | General             | Local     |
|                                   | ,      | Inhalation         |                        | population          |           |
|                                   | DNEL   | Long term          | 14.7 mg/m <sup>3</sup> |                     | Systemic  |
|                                   |        | Inhalation         |                        | population          | -         |
|                                   |        |                    |                        |                     |           |

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 FRS-40 SEMI-GLOSS BASE RED C2 METAL/ 3168

# SECTION 8: Exposure controls/personal protection

| SECTION 8: Exposure (    | controls/p | ersonal prote    | ction                  |            |          |
|--------------------------|------------|------------------|------------------------|------------|----------|
|                          | 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    |
|                          |            | Inhalation       | m³                     | population |          |
|                          | DNEL       | Short term       | 155.2 mg/              | General    | Systemic |
|                          |            | Inhalation       | m³                     | population | •        |
|                          | DNEL       | Short term       | 208 mg/m <sup>3</sup>  | Workers    | Local    |
|                          |            | Inhalation       |                        |            |          |
|                          | DNEL       | Short term       | 208 mg/m <sup>3</sup>  | Workers    | Systemic |
|                          |            | Inhalation       | ō                      |            |          |
| 4-morpholinecarbaldehyde | DNEL       | Long term Oral   | 8 mg/kg                | General    | Systemic |
|                          |            | · ·              | bw/day                 | population |          |
|                          | DNEL       | Long term Dermal | 8 mg/kg                | General    | Systemic |
|                          |            | <u> </u>         | bw/day                 | population | -        |
|                          | DNEL       | Long term Dermal | 14 mg/kg               | Workers    | Systemic |
|                          |            | J                | bw/day                 |            | ,        |
|                          | DNEL       | Long term        | 29 mg/m³               | General    | Systemic |
|                          |            | Inhalation       | J                      | population | ,        |
|                          | DNEL       | Long term        | 98 mg/m³               | Workers    | Systemic |
|                          |            | Inhalation       | 3.                     |            | ,        |
| methyl methacrylate      | DNEL       | Long term Dermal | 8.2 mg/kg              | General    | Systemic |
| ,                        |            | 3                | bw/day                 | population | ,        |
|                          | DNEL       | Long term Dermal | 13.67 mg/              | Workers    | Systemic |
|                          |            | 3                | kg bw/day              |            | ,        |
|                          | DNEL       | Long term        | 74.3 mg/m <sup>3</sup> | General    | Systemic |
|                          |            | Inhalation       | J                      | population | ,        |
|                          | DNEL       | Long term        | 104 mg/m <sup>3</sup>  | General    | Local    |
|                          |            | Inhalation       | - <b>3</b>             | population |          |
|                          | DNEL       | Long term        | 208 mg/m <sup>3</sup>  | Workers    | Local    |
|                          |            | Inhalation       | <b>3</b> .             |            |          |
|                          | DNEL       | Long term        | 208 mg/m <sup>3</sup>  | Workers    | Systemic |
|                          |            | Inhalation       | 3                      |            |          |
| cumene                   | DNEL       | Long term Dermal | 1.2 mg/kg              | General    | Systemic |
|                          |            | · ·              | bw/day                 | population |          |
|                          | DNEL       | Long term Oral   | 5 mg/kg                | General    | Systemic |
|                          |            | · ·              | bw/day                 | population |          |
|                          | DNEL       | Long term Dermal | 15.4 mg/               | Workers    | Systemic |
|                          |            | <u> </u>         | kg bw/day              |            |          |
|                          | DNEL       | Long term        | 16.6 mg/m <sup>3</sup> | General    | Systemic |
|                          |            | Inhalation       | J                      | population |          |
|                          | DNEL       | Long term        | 100 mg/m <sup>3</sup>  | Workers    | Systemic |
|                          |            | Inhalation       | J. 11                  |            | ,        |
|                          | DNEL       | Short term       | 250 mg/m <sup>3</sup>  | Workers    | Local    |
|                          |            | Inhalation       | 5                      |            |          |
|                          |            | ·                |                        |            |          |

#### **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**

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

## 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. Contaminated work clothing should not be allowed out of the workplace. 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  $\ge 0.12$  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.

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# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid. Color : Red.

Odor Characteristic. Odor threshold : Not available. рH : 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 : Not available. explosive limits

Vapor pressure

: Not available.

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

Weighted average: 3.37 (Air = 1)

**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): 10.09 cm<sup>2</sup>/s

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

# SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

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.

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, 10.4 Conditions to avoid

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.

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## 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/m³                  | 2 hours  |
|                          | LD50 Dermal                                    | Rabbit       | >17600 mg/kg            | -        |
|                          | LD50 Intraperitoneal                           | Mouse        | 1230 mg/kg              | -        |
|                          | LD50 Oral                                      | Guinea pig   | 4700 mg/kg              | -        |
|                          | LD50 Oral                                      | Mouse        | 6 g/kg                  | -        |
|                          | LD50 Oral                                      | Rabbit       | 3200 mg/kg              | -        |
|                          | LD50 Oral                                      | Rat          | 10768 mg/kg             | -        |
| Reaction mass of         | LC50 Inhalation Gas.                           | Rat          | 5000 ppm                | 4 hours  |
| ethylbenzene and xylene  |  |              |                         |          |
| 4-methylpentan-2-one     | LD50 Intraperitoneal                           | Guinea pig   | 800 mg/kg               | _        |
| ,                        | LD50 Intraperitoneal                           | Mouse        | 268 mg/kg               | -        |
|                          | LD50 Intraperitoneal                           | Rat          | 400 mg/kg               | _        |
|                          | LD50 Oral                                      | Guinea pig   | 1600 mg/kg              | _        |
|                          | LD50 Oral                                      | Mouse        | 1900 mg/kg              | _        |
|                          | LD50 Oral                                      | Mouse        | 2850 mg/kg              | _        |
|                          | LD50 Oral                                      | Rat          | 2080 mg/kg              | _        |
|                          | LD50 Oral                                      | Rat          | 4600 mg/kg              | _        |
| 4-morpholinecarbaldehyde | LD50 Oral                                      | Rat          | 6500 uL/kg              | _        |
| methyl methacrylate      | LC50 Inhalation Vapor                          | Mouse        | 18500 mg/m <sup>3</sup> | 2 hours  |
| Incury methaci yiate     | LC50 Inhalation Vapor                          | Rat          | 78000 mg/m³             | 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 Oral                                      | Guinea pig   | 5954 mg/kg              | _        |
|                          | LD50 Subcutaneous                              | Mouse        | 5954 mg/kg              | _        |
|                          | LD50 Subcutaneous                              | Rat          | 7088 mg/kg              | -        |
| cumono                   | LC50 Inhalation Vapor                          | Mouse        | 15300 mg/m <sup>3</sup> | 2 hours  |
| cumene                   | LC50 Inhalation Vapor                          | Mouse        | 10 g/m <sup>3</sup>     | 7 hours  |
|                          |  |              | 10 g/III<br>10000 mg/m³ | 7 hours  |
|                          | LC50 Inhalation Vapor<br>LC50 Inhalation Vapor | Mouse<br>Rat | 39000 mg/m <sup>3</sup> | 4 hours  |
|                          | LD50 Innalation Vapor                          | Rabbit       |                         | 4 110u15 |
|                          |  |              | 12300 uL/kg             | -        |
|                          | LD50 Oral                                      | Mouse        | 12750 mg/kg             | -        |
|                          | LD50 Oral                                      | Rat          | 2.9 g/kg                | -        |
|                          | LD50 Oral                                      | Rat          | 1400 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 ethylbenzene and xylene | Eyes - Mild irritant     | Rabbit  | -     | 87 mg         | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5    | -           |
|  |                          |         |       | mg            |             |
|  | Skin - Mild irritant     | Rat     | -     | 8 hours 60 UI | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500  | -           |
|  |                          |         |       | mg            |             |
|  | Skin - Moderate irritant | Rabbit  | -     | 100 %         | -           |
| 4-methylpentan-2-one                     | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100  | -           |

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|--------------------------|--------------------------|--------|---|--------------|---|
|                          | Eyes - Severe irritant   | Rabbit | - | 40 mg        | - |
|                          | Skin - Mild irritant     | Rabbit | - | 24 hours 500 | - |
|                          |                          |        |   | mg           |   |
| 4-morpholinecarbaldehyde | Eyes - Mild irritant     | Rabbit | - | 24 hours 500 | - |
|                          |                          |        |   | mg           |   |
|                          | Skin - Mild irritant     | Rabbit | - | 24 hours 500 | - |
|                          |                          |        |   | mg           |   |
| cumene                   | Eyes - Mild irritant     | Rabbit | - | 24 hours 500 | - |
|                          |                          |        |   | mg           |   |
|                          | Eyes - Mild irritant     | Rabbit | - | 86 mg        | - |
|                          | Skin - Mild irritant     | Rabbit | - | 24 hours 10  | - |
|                          |                          |        |   | mg           |   |
|                          | Skin - Moderate irritant | Rabbit | - | 24 hours 100 | - |
|                          |                          |        |   | mg           |   |
|                          |                          |        |   |              |   |

Conclusion/Summary

: Not available.

**Sensitization** 

**Conclusion/Summary** 

: 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                |
|--|------------|-------------------|------------------------------|
| n-butyl acetate  | Category 3 | -                 | Narcotic effects             |
| 2-ethoxy-1-methylethyl 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             |
| aromatic hydrocarbons, C9  | Category 3 | -                 | Respiratory tract irritation |
|  | Category 3 |                   | Narcotic effects             |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25%) | Category 3 | -                 | Narcotic effects             |
| methyl methacrylate  | Category 3 | -                 | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

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

## **Aspiration hazard**

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

Information on the likely

routes of exposure

: Not available.

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. May cause an allergic

skin reaction.

**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 redness 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 : Not available.

effects

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. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

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Other information : Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| 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, | 96 hours |
|                         |   | Weanling)  |          |
|                         | Chronic NOEC 78 mg/l Fresh water                                      | Daphnia - Daphnia magna                                      | 21 days  |
|                         | Chronic NOEC 168 mg/l Fresh water                                     | Fish - Pimephales promelas - Embryo                          | 33 days  |
| methyl methacrylate     | Acute LC50 191000 μg/l Fresh water                                    | Fish - Lepomis macrochirus -                                 | 96 hours |
|                         |   | Juvenile (Fledgling, Hatchling,                              |          |
|                         | Aguta I CEO 150100 ug/l Freeh weter                                   | Weanling) Fish - Pimephales promelas                         | 96 hours |
|                         | Acute LC50 159100 µg/l Fresh water Acute LC50 160200 µg/l Fresh water | Fish - Pimephales promelas                                   | 96 hours |
|                         | Acute LC50 150000 µg/l Fresh water                                    | Fish - Pimephales promelas -                                 | 96 hours |
|                         | Acute LC50 150000 µg/l Fresh water                                    | Adult  | 96 Hours |
|                         | Acute LC50 130000 μg/l Fresh water                                    | Fish - Pimephales promelas - Adult                           | 96 hours |
| cumene                  | Acute EC50 2600 μg/l Fresh water                                      | Algae - Pseudokirchneriella subcapitata                      | 72 hours |
|                         | Acute EC50 7.4 mg/l Marine water                                      | Crustaceans - Artemia sp<br>Nauplii                          | 48 hours |
|                         | Acute EC50 7.5 mg/l Marine water                                      | Crustaceans - Artemia sp<br>Nauplii                          | 48 hours |
|                         | Acute EC50 10.6 mg/l Fresh water                                      | Daphnia - Daphnia magna -<br>Neonate                         | 48 hours |
|                         | Acute EC50 10.6 mg/l Fresh water                                      | Daphnia - Daphnia magna -<br>Neonate                         | 48 hours |
|                         | Acute EC50 11.2 mg/l Fresh water                                      | Daphnia - Daphnia magna -<br>Neonate                         | 48 hours |
|                         | Acute LC50 7.4 mg/l Marine water                                      | Crustaceans - Artemia sp<br>Nauplii                          | 48 hours |
|                         | Acute LC50 8 mg/l Marine water  | Crustaceans - Artemia sp<br>Nauplii                          | 48 hours |
|                         | Acute LC50 20.3 mg/l Fresh water                                      | Daphnia - Daphnia magna -                                    | 48 hours |
|                         | Acute LC50 20.3 mg/l Fresh water                                      | Neonate<br>Daphnia - Daphnia magna -<br>Neonate              | 48 hours |
|                         | Acute LC50 6320 µg/l Fresh water                                      | Fish - Pimephales promelas                                   | 96 hours |
|                         | Acute LC50 5100 µg/l Fresh water                                      | Fish - Poecilia reticulata                                   | 96 hours |
|                         | Acute LC50 2700 µg/l Fresh water                                      | Fish - Oncorhynchus mykiss                                   | 96 hours |

**Conclusion/Summary** 

: Not available.

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## 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-ethoxy-1-methylethyl acetate           | 0.76   | -           | low       |
| 2-methoxy-1-methylethyl acetate          | 1.2    | -           | low       |
| Reaction mass of ethylbenzene and xylene | 3.12   | 8.1 to 25.9 | low       |
| 4-methylpentan-2-one                     | 1.9    | -           | low       |
| 4-morpholinecarbaldehyde                 | -      | <1.9        | low       |
| methyl methacrylate                      | 1.38   | -           | low       |
| cumene                                   | 3.55   | 35.48       | 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

## **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**

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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

|                                    | ADR/RID | IMDG   | IATA   |
|------------------------------------|---------|--------|--------|
| 14.1 UN number                     | UN1263  | UN1263 | UN1263 |
| 14.2 UN proper shipping name       | PAINT   | PAINT  | PAINT  |
| 14.3 Transport<br>hazard class(es) | 3       | 3      | 3      |
| 14.4 Packing group                 | III     | III    | III    |
| 14.5<br>Environmental<br>hazards   | No.     | No.    | No.    |

#### **Additional information**

ADR/RID

: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code (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.

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.

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# 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

prevention and control) -

**Industrial emissions** 

: Not listed

: 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**

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,

Articles L 461-1 to L 461-7

: n-butyl acetate **RG 84** 

Reaction mass of ethylbenzene and xylene RG 4bis, RG 84

4-methylpentan-2-one **RG 84** methyl methacrylate **RG 82** cumene **RG 84** 

Reinforced medical

surveillance

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

occupational medicine: not applicable

#### International regulations

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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# **SECTION 15: Regulatory information**

#### **Montreal Protocol**

Not listed.

#### **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** 

**Europe** : Not determined.

15.2 Chemical Safety

**Assessment** 

acronyms

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

: 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 |
| Skin Sens. 1, H317      | Calculation method    |
| Carc. 2, H351           | Calculation method    |
| STOT SE 3, H336         | Calculation method    |
| Aquatic Chronic 3, H412 | 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.                             |
| H361f | Suspected of damaging fertility.                         |
| H372  | Causes damage to organs through prolonged or repeated    |
|       | exposure.  |
| H373  | May cause damage to organs through prolonged or repeated |
|       | exposure.  |
| H400  | Very toxic to aquatic life.                              |
|       |  |

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| <b>SECTION 16: Other information</b> | on  |
|--------------------------------------|---|
| H410                                 | Very toxic to aquatic life with long lasting effects. |
| H411                                 | Toxic to aquatic life with long lasting effects.      |
| H412                                 | Harmful to aquatic life with long lasting effects.    |
| EUH066                               | Repeated exposure may cause skin dryness or cracking. |

## Full text of classifications [CLP/GHS]

Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Chronic 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Carc. 2 **CARCINOGENICITY - Category 2** Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 2 TOXIC TO REPRODUCTION - Category 2 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITIZATION - Category 1 Skin Sens. 1A SKIN SENSITIZATION - Category 1A STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED STOT RE 2 EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -STOT SE 3 Category 3 : 1 October 2022

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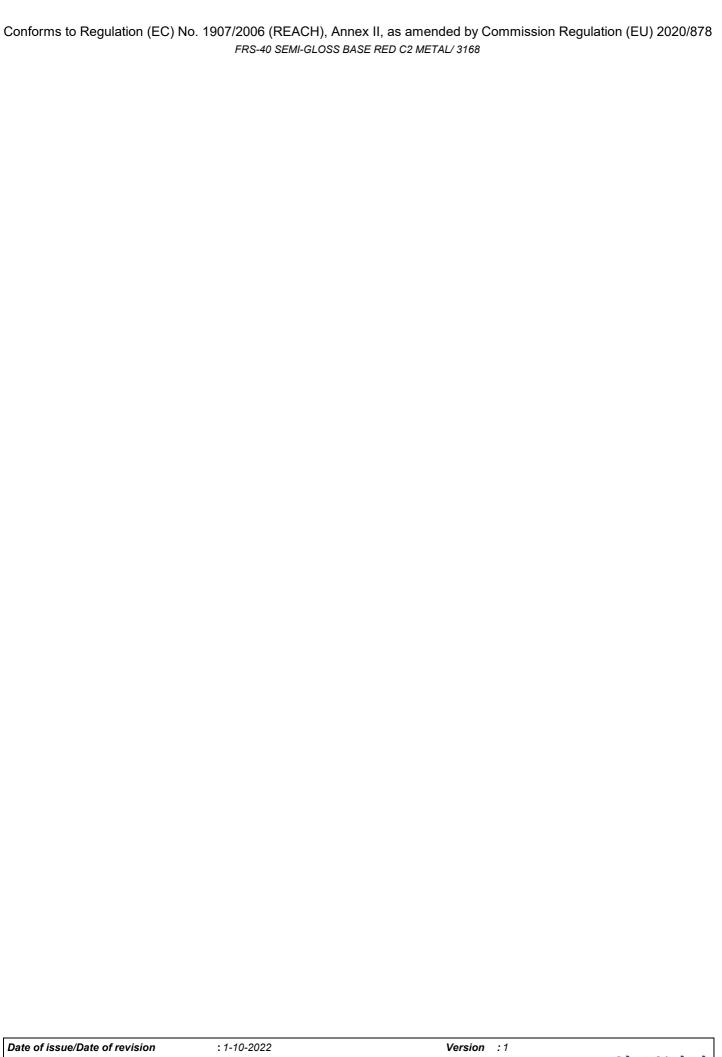
#### FOR PROFESSIONAL USE ONLY

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.

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