

SAFETY DATA SHEET

FRS-40 SEMI-GLOSS BASE GREY METAL 2 ST/ B139

Section 1. Identification

GHS product identifier : FRS-40 SEMI-GLOSS BASE GREY METAL 2 ST/ B139

SDS code : 4092B139B

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

: Solvent borne coating for interior use. Product use

Supplier's details

MAPAERO SAS

10, Avenue de la Rijole CS30098

09103 PAMIERS Cedex

France

Emergency telephone number (with hours of

operation)

: +33 (0)5 34 01 34 01

+33 (0)5 61 60 23 30

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

Hazard pictograms







Signal word : Warning

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Section 2. Hazards identification

Hazard statements

: Flammable liquid and vapor.

May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Precautionary statements

Prevention

: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, sparks and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe vapor.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

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

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name | % | CAS number |
|---------------------------------|-----------|------------|
| r-butyl acetate | ≥25 - ≤50 | 123-86-4 |
| 2-methoxy-1-methylethyl acetate | ≥10 - ≤25 | 108-65-6 |
| xylene | <10 | 1330-20-7 |
| 4-methylpentan-2-one | ≤5 | 108-10-1 |
| ethylbenzene | ≤3 | 100-41-4 |
| diiron trioxide | ≤3 | 1309-37-1 |
| Aluminium powder (stabilized) | ≤3 | 7429-90-5 |
| methyl methacrylate | <1 | 80-62-6 |
| 4-morpholinecarbaldehyde | ≤1 | 4394-85-8 |
| titanium dioxide | ≤0.3 | 13463-67-7 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eve 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.

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Section 4. First aid measures

Skin contact

: Wash with plenty of soap and water. 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 as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact: May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

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.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: 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 thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

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.

Section 6. Accidental release measures

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".

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).

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

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 breathe vapor or mist. Do not ingest. 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.

including any incompatibilities

Conditions for safe storage, : 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| pr-butyl acetate | NIOSH REL (United States, 10/2016). STEL: 950 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 710 mg/m³ 10 hours. TWA: 150 ppm 10 hours. OSHA PEL (United States, 5/2018). TWA: 710 mg/m³ 8 hours. TWA: 150 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 950 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 710 mg/m³ 8 hours. TWA: 150 ppm 8 hours. ACGIH TLV (United States, 3/2020). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. |
| 2-methoxy-1-methylethyl acetate xylene | AIHA WEEL (United States, 7/2018). TWA: 50 ppm 8 hours. ACGIH TLV (United States, 3/2020). Notes: 1996 Adoption Substances for which there is a Biological Exposure Index or Indices Refers to Appendix A Carcinogens. STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. |

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Section 8. Exposure controls/personal protection

TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

STEL: 655 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

ACGIH TLV (United States, 3/2020). Notes: Substances for which there is a Biological **Exposure Index or Indices**

STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.

NIOSH REL (United States, 10/2016).

STEL: 300 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m³ 10 hours. TWA: 50 ppm 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 410 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

STEL: 300 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

ACGIH TLV (United States, 3/2020). Notes: Substances for which there is a Biological **Exposure Index or Indices 2002 Adoption.**

TWA: 20 ppm 8 hours.

NIOSH REL (United States, 10/2016).

STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m³ 10 hours. TWA: 100 ppm 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

None. None.

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ACGIH TLV (United States, 3/2020). Skin sensitizer. Notes: Refers to Appendix A --Carcinogens. 2000 Adoption.

STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

NIOSH REL (United States, 10/2016).

TWA: 410 mg/m³ 10 hours. TWA: 100 ppm 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 410 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 410 mg/m³ 8 hours.

4-methylpentan-2-one

ethylbenzene

diiron trioxide

Aluminium powder (stabilized)

methyl methacrylate

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4-morpholinecarbaldehyde titanium dioxide

TWA: 100 ppm 8 hours.

None.

OSHA PEL (United States, 5/2018).

TWA: 15 mg/m³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989).

TWA: 10 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2020). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. 1996 Adoption Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124):36338-33351, June 30, 1993, for revised OSHA PEL. Refers to Appendix A -- Carcinogens.

TWA: 10 mg/m³ 8 hours.

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.

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.

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. 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: chemical splash goggles.

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.

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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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.

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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.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid.
Color : Silver.

Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.

Flash point : Closed cup: 28°C (82.4°F)

Evaporation rate : Not available. **Flammability (solid, gas)** : Not available.

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)

Vapor pressure : Not available.

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

average: 4.05 (Air = 1)

Density : 1.044 g/cm³

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

Partition coefficient: n-

octanol/water

: Not available.

Section 10. Stability and reactivity

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

Chemical stability: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

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.

Incompatible materials : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------|-----------------------|------------|--------------------|----------|
| <mark>ଜ-</mark> butyl acetate | LC50 Inhalation Gas. | Rat | 390 ppm | 4 hours |
| | LC50 Inhalation Vapor | Mouse | 6 g/m ³ | 2 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 1230 mg/kg | - |
| | LD50 Oral | Guinea pig | 4700 mg/kg | - |
| | LD50 Oral | Mouse | 6 g/kg | - |
| | LD50 Oral | Rabbit | 3200 mg/kg | - |
| | LD50 Oral | Rat | 10768 mg/kg | - |
| xylene | LC50 Inhalation Gas. | Rat | 6700 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 6670 ppm | 4 hours |
| | LD50 Intraperitoneal | Mouse | 1548 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 1548 mg/kg | _ |
| | LD50 Intraperitoneal | Rat | 2459 mg/kg | _ |
| | LD50 Oral | Mouse | 2119 mg/kg | _ |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | _ |
| | LD50 Subcutaneous | Rat | 1700 mg/kg | _ |
| 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 | _ |
| ethylbenzene | LC50 Inhalation Gas. | Rabbit | 4000 ppm | 4 hours |
| 041171201120110 | LC50 Inhalation Vapor | Mouse | 35500 mg/m³ | 2 hours |
| | LC50 Inhalation Vapor | Rat | 55000 mg/m³ | 2 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Dermal | Rabbit | 17800 uL/kg | _ |
| | LD50 Intraperitoneal | Mouse | 2624 uL/kg | _ |
| | LD50 Oral | Rat | 3500 mg/kg | |
| | LD50 Oral | Rat | 3500 mg/kg | _ |
| methyl methacrylate | LC50 Inhalation Vapor | Mouse | 18500 mg/m³ | 2 hours |
| Thourst Thousand ylute | 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 Subcutaneous | Guinea pig | 5954 mg/kg | |
| | LD50 Subcutaneous | Mouse | 5954 mg/kg | _ |
| | LD50 Subcutaneous | Rat | 7088 mg/kg | _ |
| 4-morpholinecarbaldehyde | LD50 Oral | Rat | 6500 uL/kg | _ |
| - morpholineoarbaidenyde | LD00 Olai | rat | oooo al/kg | |

Irritation/Corrosion

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| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------------|--------------------------|---------|-------|---------------|-------------|
| <mark>p</mark> -butyl acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| - | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| 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 | - |
| | | | | UI | |
| | Eyes - Severe irritant | Rabbit | - | 40 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 | - |
| | | | | mg | |
| 4-morpholinecarbaldehyde | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| kylene | - | 3 | - |
| 4-methylpentan-2-one | - | 2B | - |
| ethylbenzene | - | 2B | - |
| diiron trioxide | - | 3 | - |
| methyl methacrylate | - | 3 | - |
| titanium dioxide | - | 2B | - |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---------------------------------|------------|-------------------|------------------------------|
| n-butyl acetate | Category 3 | - | Narcotic effects |
| 2-methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| 4-methylpentan-2-one | Category 3 | - | Narcotic effects |
| methyl methacrylate | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

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| Name | Category | Route of exposure | Target organs |
|--------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Name | Result |
|------|--|
| 1 7 | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact: 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: Adverse symptoms may include the following:

pain or irritation watering

watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

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

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.

General : May cause damage to organs through prolonged or repeated exposure. 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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Section 12. Ecological information

Toxicity

| 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 |
| xylene | Acute EC50 90 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute LC50 8.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |
| | Acute LC50 8500 μg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 15700 μg/l Fresh water | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 20870 μg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 19000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 16940 µg/l Fresh water | Fish - Carassius auratus | 96 hours |
| 4-methylpentan-2-one | Acute LC50 505000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| 71 | Acute LC50 540000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 537000 μg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 78 mg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 168 mg/l Fresh water | Fish - Pimephales promelas - Embryo | 33 days |
| ethylbenzene | Acute EC50 4900 µg/l Marine water | Algae - Skeletonema costatum | 72 hours |
| , | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 4600 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 5400 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 3600 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 6.53 mg/l Marine water | Crustaceans - Artemia sp Nauplii | 48 hours |
| | Acute EC50 13.3 mg/l Marine water | Crustaceans - Artemia sp Nauplii | 48 hours |
| | Acute EC50 2.97 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 2.93 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 8.78 mg/l Marine water | Crustaceans - Artemia sp Nauplii | 48 hours |
| | Acute LC50 13.3 mg/l Marine water | Crustaceans - Artemia sp Nauplii | 48 hours |
| | Acute LC50 40000 μg/l Marine water | Crustaceans - Cancer magister - Zoea | 48 hours |
| | Acute LC50 18.4 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 13.9 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 75000 μg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 5100 μg/l Marine water | Fish - Menidia menidia | 96 hours |
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| | Acute LC50 9090 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
|-------------------------------|---------------------------------------|------------------------------------|----------|
| | Acute LC50 9100 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 4200 μg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 4.3 ul/L Marine water | Fish - Morone saxatilis - Juvenile | 96 hours |
| | | (Fledgling, Hatchling, Weanling) | |
| Aluminium powder (stabilized) | Acute LC50 38000 μg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 260 μg/l Fresh water | Fish - Ctenopharyngodon idella - | 96 hours |
| | | Fry | |
| | Acute LC50 1130 μg/l Fresh water | Fish - Cobitidae - Fry | 96 hours |
| | Acute LC50 310 μg/l Fresh water | Fish - Oncorhynchus mykiss - | 96 hours |
| | | Embryo | |
| | Acute LC50 160 µg/l Fresh water | Fish - Oncorhynchus mykiss - | 96 hours |
| | | Embryo | |
| | Acute LC50 120 μg/l Fresh water | Fish - Oncorhynchus mykiss - | 96 hours |
| | | Embryo | |
| | Chronic NOEC 9 mg/l Fresh water | Aquatic plants - Ceratophyllum | 3 days |
| | | demersum | 1 |
| | Chronic NOEC 9 mg/l Fresh water | Aquatic plants - Ceratophyllum | 3 days |
| | | demersum | 1 |
| methyl methacrylate | Acute LC50 191000 µg/l Fresh water | Fish - Lepomis macrochirus - | 96 hours |
| | 1 3 | 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 - | 96 hours |
| | 1 3 | Adult | |
| | Acute LC50 130000 μg/l Fresh water | Fish - Pimephales promelas - | 96 hours |
| | 1 9 | Adult | |
| titanium dioxide | Acute EC50 19.3 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 27.8 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 35.306 mg/l Fresh water | Daphnia - Daphnia magna - | 48 hours |
| | J | Neonate | |
| | Acute LC50 3 mg/l Fresh water | Crustaceans - Ceriodaphnia | 48 hours |
| | 3 | dubia - Neonate | |
| | Acute LC50 13.4 mg/l Fresh water | Crustaceans - Ceriodaphnia | 48 hours |
| | 9 | dubia - Neonate | |
| | Acute LC50 11 mg/l Fresh water | Crustaceans - Ceriodaphnia | 48 hours |
| | 3 | dubia - Neonate | |
| | Acute LC50 3.6 mg/l Fresh water | Crustaceans - Ceriodaphnia | 48 hours |
| | 3 | dubia - Neonate | |
| | Acute LC50 15.9 mg/l Fresh water | Crustaceans - Ceriodaphnia | 48 hours |
| | | dubia - Neonate | |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - Daphnia pulex - | 48 hours |
| | | Neonate | |
| | Acute LC50 13 mg/l Fresh water | Daphnia - Daphnia pulex - | 48 hours |
| | | Neonate | |
| | Acute LC50 >1000 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 >1000000 µg/l Marine water | Fish - Fundulus heteroclitus | 96 hours |
| | 2000 Toodoo pg/Tiviariilo Water | | 30 |

Persistence and degradability

Not available.

Bioaccumulative potential

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| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------------|--------|-------------|-----------|
| <mark>ଜ</mark> -butyl acetate | 2.3 | - | low |
| 2-methoxy-1-methylethyl | 1.2 | - | low |
| acetate | | | |
| xylene | 3.12 | 8.1 to 25.9 | low |
| 4-methylpentan-2-one | 1.9 | - | low |
| ethylbenzene | 3.6 | - | low |
| methyl methacrylate | 1.38 | - | low |
| 4-morpholinecarbaldehyde | - | <1.9 | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

United States - RCRA Toxic hazardous waste "U" List

| Ingredient | CAS# | Status | Reference number |
|--|-----------|--------|------------------|
| Reaction mass of ethylbenzene and xylene | - | Listed | U239 |
| 4-methylpentan-2-one | 108-10-1 | Listed | U161 |
| xylene | 1330-20-7 | Listed | U239 |

Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

| | DOT Classification | IMDG | IATA |
|----------------------------|--------------------|--------|--------|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT |
| Transport hazard class(es) | 3 | 3 | 3 |
| Packing group | III | III | III |

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| FRS-40 SEMI-GLOSS BASE GREY METAL 2 ST/ B139 | | | | | | |
|--|-----|-----|-----|--|--|--|
| | | | | | | |
| Section 14. Transport information | | | | | | |
| Environmental hazards | No. | No. | No. | | | |

Additional information

DOT Classification : Reportable quantity 1361.8 lbs / 618.24 kg [156.44 gal / 592.19 L]. Package sizes

shipped in quantities less than the product reportable quantity are not subject to the RQ

(reportable quantity) transportation requirements.

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.

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

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

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations : United States inventory

(TSCA 8b):

I components are active or exempted.

State regulations

Massachusetts : The following components are listed: BUTYL ACETATE; N-BUTYL ACETATE; XYLENE;

> DIMETHYLBENZENE; METHYL ISOBUTYL KETONE; 4-METHYL-2-PENTANONE; ALUMINUM; ROUGE DUST; IRON OXIDE DUST; XYLENE; DIMETHYLBENZENE

: The following components are listed: Butyl acetate; Xylene mixed; Methyl isobutyl **New York**

ketone; Hexone; Xylene mixed

The following components are listed: n-BUTYL ACETATE; ACETIC ACID, BUTYL **New Jersey**

ESTER; XYLENES; BENZENE, DIMETHYL-; METHYL ISOBUTYL KETONE;

2-PENTANONE, 4-METHYL-; ALUMINUM; IRON OXIDE; FERRIC OXIDE; TITANIUM

DIOXIDE; TITANIUM OXIDE (TiO2); CARBON BLACK; XYLENES; BENZENE,

DIMETHYL-

Pennsylvania : The following components are listed: ACETIC ACID, BUTYL ESTER; BENZENE,

DIMETHYL-; 2-PENTANONE, 4-METHYL-; ALUMINUM; IRON OXIDE; TITANIUM

OXIDE; CARBON BLACK; BENZENE, DIMETHYL-

California Prop. 65

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable dosage level |
|--|------------------------------|---------------------------------|
| 4-methylpentan-2-one ethylbenzene carbon black, respirable powder titanium dioxide | - Yes. - | - - - |
| toluene crystalline silica, respirable powder cumene | - | Yes. - - |

Inventory list

Canada : At least one component is not listed.

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Section 15. Regulatory information

Section 16. Other information

Procedure used to derive the classification

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | On basis of test data Calculation method Calculation method Calculation method Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |

History

Date of printing : 2 November 2022

Date of issue/ Date of : 2 November 2022

revision

Date of previous issue : 6 October 2022

Version : 2 Unique ID :

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

▼ Indicates information that has changed from previously issued version.

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.

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