

SAFETY DATA SHEET

FRS-40 MATT BASE GREY FS 36118

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet,
Article 10 Paragraph 1

Section 1. Chemical product and company identification

A. Product name : FRS-40 MATT BASE GREY FS 36118

SDS code : 40746118B

B. 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.

C. Supplier's details

MAPAERO SAS

10, Avenue de la Rijole CS30098

09103 PAMIERS Cedex

France

e-mail address of

person responsible for

this SDS

Emergency telephone

number (with hours of

operation)

: PSRA_PAMIERS@akzonobel.com

: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

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

Category 3

SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

This product is classified in accordance with the Industrial Safety and Health Act and

the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :







Signal word : Warning

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Section 2. Hazards identification

Hazard statements : F226 - Flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 - Do not breathe vapor.

Response: P314 - Get medical advice or attention if you feel unwell.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Storage: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 - Keep cool.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

C. Other hazards which do

not result in classification

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name | Common name | Identifiers | % |
|--|---------------------------------|-----------------|-----------|
| <mark>ଜ</mark> -butyl acetate | n-butyl acetate | CAS: 123-86-4 | ≥20 - ≤25 |
| titanium dioxide | Titanium dioxide | CAS: 13463-67-7 | ≥10 - ≤15 |
| xylene | xylene | CAS: 1330-20-7 | ≤10 |
| 2-methoxy-1-methylethyl acetate | 2-methoxy-1-methylethyl acetate | CAS: 108-65-6 | ≤10 |
| silicon dioxide | silica, amorphous, fumed | CAS: 7631-86-9 | ≤5 |
| ethylbenzene | ethylbenzene | CAS: 100-41-4 | ≤5 |
| Talc , not containing asbestiform fibres | talc (non-asbestos form) | CAS: 14807-96-6 | ≤5 |
| cyclohexanone | Cyclohexanone | CAS: 108-94-1 | ≤5 |
| toluene | toluene | CAS: 108-88-3 | ≤5 |

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

A. 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 following exposure or if feeling unwell.

B. Skin contact

: Mush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

C. 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.

D. Ingestion

: Wash out mouth with water. Remove dentures if any. 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.

E. 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing

media

Unsuitable

extinguishing media

: Do not use water jet.

B. 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:

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

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective equipment for firefighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special precautions 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.

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Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
- : 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.
- B. 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).

C. 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.

Section 7. Handling and storage

A. Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
- B. 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.

Section 8. Exposure controls/personal protection

A. Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-------------------------------|---------------------------------------|
| <mark>ଜ</mark> -butyl acetate | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 200 ppm 15 minutes. |
| | TWA: 150 ppm 8 hours. |
| xylene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). [Xylene] |
| | STEL: 150 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| ethylbenzene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| cyclohexanone | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). Absorbed |
| | through skin. |
| | TWA: 25 ppm 8 hours. |
| | STEL: 50 ppm 15 minutes. |
| toluene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 150 ppm 15 minutes. |
| | TWA: 50 ppm 8 hours. |

B. 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.

C. Personal protective equipment

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.

Eye 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.

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.

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Section 8. Exposure controls/personal protection

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.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

A. Appearance

Physical state : Liquid.
Color : Gray.

B. Odor : Characteristic.C. Odor threshold : Not available.

D. pH : Not available. [DIN EN 1262]

E. Melting/freezing point : Not available.F. Boiling point, initial : Not available.

boiling point, and boiling range

G. Flash point : Closed cup: 28°C (82.4°F) [Pensky-Martens]

H. Evaporation rate : Not available.
I. Flammability (solid, gas) : Not available.
J. Lower and upper : Not available.

explosive (flammable)

limits

K. Vapor pressure :

| | Va | or Pressur | e at 20°C | Va | por pressur | e at 50°C |
|--|--------------|---------------|----------------|-------|-------------|-----------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| methyl methacrylate | 27.75 | 3.7 | | | | |
| Toluene | 23.17 | 3.1 | | | | |
| n-butyl acetate | 11.25 | 1.5 | DIN EN 13016-2 | | | |
| ethylbenzene | 9.3 | 1.2 | | | | |
| Xylene | 6.7 | 0.89 | | | | |
| cyclohexanone | 3.75 | 0.5 | | | | |
| cumene | 3.72 | 0.5 | | | | |
| 2-methoxy-1-methylethyl acetate | 2.7 | 0.36 | | | | |
| Distillates (petroleum), hydro- treated light | 0.23 to 0.45 | 0.031 to 0.06 | | | | |
| aluminium hydroxide | <0.075 | <0.01 | | | | |
| 2-hydroxyethyl methacrylate | 0.06 | 0.008 | OECD 104 | | | |
| 2,6-di-tert-butyl-p-cresol | 0.01 | 0.0013 | | | | |
| 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] | <0.00000075 | <0.0000001 | OECD 104 | | | |
| propylidynetrimethanol | 0 | 0 | | | | |

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Section 9. Physical and chemical properties

L. Solubility(ies)

| Media | Result |
|------------|-----------------------------|
| cold water | Not soluble [OESO (TG 105)] |

: Not available. Solubility in water

M. Vapor density

N. Density : 7.315 g/cm³ [DIN EN ISO 2811-1]

O. Partition coefficient: n-

octanol/water

: Not applicable.

P. Auto-ignition

temperature

| Ingredient name | °C | °F | Method |
|---|------------|------------|-----------|
| stillates (petroleum), hydro- treated light | >220 | >428 | |
| Ethene, homopolymer | 330 to 410 | 626 to 770 | |
| 2-methoxy-1-methylethyl acetate | 333 | 631.4 | |
| methyl methacrylate | 400 | 752 | DIN 51794 |
| n-butyl acetate | 415 | 779 | EU A.15 |
| cyclohexanone | 420 | 788 | |
| cumene | 424 | 795.2 | |
| Xylene | 432 | 809.6 | |
| ethylbenzene | 432.22 | 810 | |
| Toluene | 480 | 896 | |

Q. Decomposition temperature

: Not available.

R. Viscosity

: Kinematic (room temperature): 837 mm²/s (837 cSt) [DIN EN ISO 3219] Kinematic (40°C (104°F)): 101 mm²/s (101 cSt) [DIN EN ISO 3219]

S. Molecular weight : Not applicable.

Particle characteristics

: Not applicable. Median particle size

Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

reactions

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

B. 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.

: Reactive or incompatible with the following materials:

C. Incompatible materials

oxidizing materials

D. Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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A. Information on the likely : Not available.

routes of exposure

Potential acute health effects

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

dizziness.

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

Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness : No specific data.

Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

B. Health hazards

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/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 | - |
| 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 | - |
| ethylbenzene | LC50 Inhalation Gas. | Rabbit | 4000 ppm | 4 hours |
| • | LC50 Inhalation Vapor | Mouse | 35500 mg/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Rat | 55000 mg/m ³ | 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 | - |
| cyclohexanone | LC50 Inhalation Gas. | Rat | 8000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 1 mL/kg | - |
| | LD50 Intraperitoneal | Guinea pig | 930 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 1230 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 1230 mg/kg | - |
| | LD50 Intraperitoneal | Rabbit | 1540 mg/kg | - |
| | LD50 Intraperitoneal | Rabbit | 1540 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 1130 mg/kg | - |
| l | | | | |

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| | LD50 Intraperitoneal | Rat | 1130 mg/kg | - |
|---------|------------------------|------------|-------------------------|----------|
| | LD50 Oral | Mouse | 1400 mg/kg | - |
| | LD50 Oral | Rat | 1800 mg/kg | - |
| | LD50 Oral | Rat | 1620 uL/kg | - |
| | LD50 Subcutaneous | Rat | 2170 mg/kg | - |
| toluene | LC50 Inhalation Gas. | Mouse | 400 ppm | 24 hours |
| | LC50 Inhalation Vapor | Mouse | 30000 mg/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Mouse | 19900 mg/m ³ | 7 hours |
| | LC50 Inhalation Vapor | Rat | 49 g/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 14100 uL/kg | - |
| | LD50 Intraperitoneal | Guinea pig | 500 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 59 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 1332 mg/kg | - |
| | LD50 Intravenous | Rat | 1960 mg/kg | - |
| | LD50 Oral | Rat | 636 mg/kg | - |
| | LD50 Route of exposure | Mouse | 2 g/kg | - |
| | unreported | | | |
| | LD50 Route of exposure | Rat | 6900 mg/kg | - |
| | unreported | | | |
| | LD50 Subcutaneous | Mouse | 2250 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------------|--------------------------|----------|-------|---------------|-------------|
| <mark>ଜ-</mark> butyl acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours | - |
| | | | | 500 mg | |
| 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 | - | 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours | - |
| | | | | 500 mg | |
| silicon dioxide | Eyes - Mild irritant | Rabbit | - | 24 hours 25 | - |
| | | | | mg | |
| ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 | - |
| | | | | mg | |
| cyclohexanone | Eyes - Severe irritant | Rabbit | - | 20 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours | - |
| | | D 11.7 | | 250 ug | |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes | - |
| | Free National Services | D-1-1-14 | | 100 mg | |
| | Eyes - Mild irritant | Rabbit | - | 870 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 2 | - |
| | Skip Mild irritant | Dobbit | | mg | |
| | Skin - Mild irritant | Rabbit | - | 435 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 | - |
| | Skin Moderate irritant | Dobbit | | mg | |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |

Sensitization

Not available.

CMR - ISHA Article 42 Occupational Exposure Limits

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| Product/ingredient name | Identifiers | Classification |
|-------------------------|-----------------|------------------------------|
| iranium dioxide | CAS: 13463-67-7 | CARCINOGENICITY - Category 2 |
| ethylbenzene | CAS: 100-41-4 | CARCINOGENICITY - Category 2 |
| cyclohexanone | CAS: 108-94-1 | CARCINOGENICITY - Category 2 |
| toluene | CAS: 108-88-3 | TOXIC TO REPRODUCTION - |
| | | Category 2 |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP | ACGIH |
|--|------|------|-----|----------|
| titanium dioxide | - | 2B | - | A4 |
| xylene | - | 3 | - | A4 |
| silicon dioxide | - | 3 | - | - |
| ethylbenzene | - | 2B | - | A3 |
| Talc , not containing asbestiform fibres | - | 3 | - | A4 |
| cyclohexanone toluene | - | 3 | - | A3 A4 |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|--|--|-------------------|--|
| r-butyl acetate xylene 2-methoxy-1-methylethyl acetate toluene | Category 3 Category 3 Category 3 | - | Narcotic effects Narcotic effects Narcotic effects Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|----------------|------------|-------------------|----------------|
| x ylene | Category 1 | - | - |
| ethylbenzene | Category 2 | - | hearing organs |
| toluene | Category 2 | - | - |

Aspiration hazard

| Name | Result |
|----------------------|--------------------------------|
| e thylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene | ASPIRATION HAZARD - Category 1 |

Potential chronic health effects

Chronic toxicity

Not available.

General : May cause damage to organs through prolonged or repeated exposure.

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

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Section 12. Ecological information

A. **Ecotoxicity**

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---------------------------------------|--|----------|
| r-butyl acetate | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| · | Acute LC50 62000 µg/l Fresh water | Fish - Danio rerio | 96 hours |
| | Acute LC50 100000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 185000 µg/l Marine water | Fish - Menidia beryllina | 96 hours |
| | Acute LC50 18000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| 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 - Neonate | 48 hours |
| | Acute LC50 3 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 13.4 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 11 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 3.6 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 15.9 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 13 mg/l Fresh water | Daphnia - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 >1000000 μg/l Marine water | Fish - Fundulus heteroclitus | 96 hours |
| | Acute LC50 >1000 mg/l Fresh water | Fish - Pimephales promelas | 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 16940 µg/l Fresh water | Fish - Carassius auratus | 96 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 |
| ethylbenzene | 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 4900 µg/l Marine water | Algae - Skeletonema costatum | 72 hours |
| | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum | 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 | 48 hours |

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| | | Nauplii | |
|---------------|---|--|--------------------|
| | 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 |
| | Acute LC50 4.3 ul/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, | 96 hours |
| | | Weanling) | |
| | Acute LC50 4200 μg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 9090 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 9100 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| cyclohexanone | Acute EC50 32.9 mg/l Fresh water | Algae - Chlamydomonas reinhardtii - Exponential growth phase | 72 hours |
| | Acute LC50 630000 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 527000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 732000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| toluene | Acute EC50 12500 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 16500 μg/l Fresh water | Crustaceans - Gammarus pseudolimnaeus - Adult | 48 hours |
| | Acute EC50 11600 μg/l Fresh water | Crustaceans - Gammarus pseudolimnaeus - Adult | 48 hours |
| | Acute EC50 6.88 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 6.56 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 19600 μg/l Fresh water | Daphnia - Daphnia magna - Larvae | 48 hours |
| | Acute EC50 6000 µg/l Fresh water | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute EC50 6780 μg/l Fresh water | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 56.3 ppm Marine water | Crustaceans - Americamysis bahia | 48 hours |
| | Acute LC50 15.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |
| | Acute LC50 15500 μg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 86.3 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 6410 μg/l Marine water | Fish - Oncorhynchus gorbuscha - Fry | 96 hours |
| | Acute LC50 5500 μg/l Fresh water | Fish - Oncorhynchus kisutch - Fry | 96 hours |
| | Acute LC50 5800 μg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 6780 μg/l Fresh water | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Chronic NOEC 2 mg/l Fresh water Chronic NOEC 1000 µg/l Fresh water | Daphnia - Daphnia magna Daphnia - Daphnia magna | 21 days 21 days |

B. Persistence and degradability

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Not available.

C. Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------------|--------|-------------|-----------|
| <mark>ଜ</mark> -butyl acetate | 2.3 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | low |
| 2-methoxy-1-methylethyl acetate | 1.2 | - | low |
| ethylbenzene | 3.6 | - | low |
| cyclohexanone | 0.86 | - | low |
| toluene | 2.73 | 90 | low |

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

- A. 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.
- **B.** Disposal 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

| | UN | IMDG | IATA |
|-------------------------------|--------|--------|--------|
| A. UN number | UN1263 | UN1263 | UN1263 |
| B. UN proper shipping name | PAINT | PAINT | PAINT |
| C. Transport hazard class(es) | 3 | 3 | 3 |
| D. Packing group | III | III | III |
| E. Environmental hazards | No. | No. | No. |

Additional information

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Section 14. Transport information

: Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.

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. **IMDG Code Segregation group** Not applicable

F. 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

A. Regulation according to ISHA

ISHA article 117 (Harmful substances

prohibited from manufacture)

ISHA article 118 (Harmful substances requiring permission) : None of the components are listed.

: None of the components are listed.

Article 2 of Youth Protection Act on

Substances Hazardous

to Youth

Exposure Limits of Chemical Substances and Physical Factors

: Not applicable.

The following components have an OEL:

n-butyl acetate

xylene

ethylbenzene

cyclohexanone

toluene

Annex 19 (Exposure standards established

for harmful factors)

ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work

Environment Measurement)

ISHA Enforcement Regs: The following components are listed: cyclohexanone, toluene

: The following components are listed: n-butyl acetate, titanium dioxide, xylene, silica, ethyl benzene, talc / soapstone

ISHA Enforcement Regs Annex 22 (Harmful

Factors Subject to Special Health Check-

up)

Standard of Industrial Safety and Health **Annex 12 (Hazardous** substances subject to control)

: The following components are listed: Xylene, Ethyl benzene

: The following components are listed: n-butyl acetate, titanium dioxide, xylene, ethyl benzene

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene

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Section 15. Regulatory information

Article 18 Prohibited (K- : None of the components are listed.

: Not applicable

Reach Article 27)

Article 19 Subject to

authorization (K-Reach

Article 25)

: None of the components are listed.

Article 20 Toxic

Chemicals (K-Reach

Article 20)

Article 20 Restricted (K- : None of the components are listed. Reach Article 27)

: None of the components are listed.

Article 39 (Accident

Precaution Chemicals)

Existing Chemical Substances Subject to : The following components are listed: Xylene; Dimethylbenzene, Quartz, Toluene

Registration C. Dangerous Materials

: Class: Class 4 - Flammable Liquid

Safety Management Act

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

D. Wastes regulation

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

and international regulations.

E. Regulation according to other foreign laws

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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.

Section 16. Other information

References : - Registry of Toxic Effects of Chemical Substances

- United States Environmental Protection Agency ECOTOX

B. Date of issue/Date of

revision

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C. Version : 2 **Unique ID**

> : 9 December 2022 Date of printing

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Section 16. Other information

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

Notice to reader

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