

SAFETY DATA SHEET

FR4-45 BASE CREAM

Section 1. Identification

GHS product identifier SDS code

: FR4-45 BASE CREAM : 64000300B

Recommended use of the chemical and restrictions on use

| Identified uses | | |
|---|---------------------------|--|
| Waterborne paint. Professional use Industrial use | | |
| | Restrictions on use | |
| All other uses | | |
| Product use | : Filler for interior use | |
| Supplier's details | | |
| MAPAEROS | SAS | |
| 10, Avenue o | le la Rijole CS30098 | |

| 09103 PAMIERS Cec France | | |
|--|---|--|
| e-mail address of person responsible for this SDS | : | PSRA_PAMIERS@akzonobel.com |
| Emergency telephone number | : | +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30 |

Section 2. Hazard identification

| Classification of the | : SKIN SENSITIZATION - Category 1 |
|-----------------------|---|
| substance or mixture | AQUATIC HAZARD (ACUTE) - Category 3 |
| | AQUATIC HAZARD (LONG-TERM) - Category 3 |

GHS label elements

Hazard pictograms



| Signal word | ning | |
|--------------------------|---|-------------------------------|
| Hazard statements | cause an allergic skin reaction. nful to aquatic life with long lasting effects. | |
| Precautionary statements | | |
| Prevention | ar protective gloves. Avoid release to the enviro | nment. Avoid breathing vapor. |
| Response | e off contaminated clothing and wash it before r ty of water. If skin irritation or rash occurs: Get | |
| Storage | applicable. | |

Section 2. Hazard identification

Disposal

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

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
|-------------------|------------------|
| Other means of | : Not available. |
| identification | |

| Ingredient name | % | CAS number |
|------------------|--------|------------|
| ☑ (M)IT/MIT(3:1) | <0.025 | 55965-84-9 |

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

| 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 if irritation occurs. |
|--------------|--|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. |
| 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. 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 adverse health effects persist or are severe. 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 | <u>effects</u> |
|------------------------|---|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/s | symptoms |
| Eye contact | : No specific data. |
| | |

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| | | | |

Section 4. First aid measures

| Inhalation | : No specific data. |
|--------------|--|
| 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. 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)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|--|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. 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 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. |
| 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. 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". | | |



Section 6. Accidental release measures

| 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. |

Methods and materials for containment and cleaning up

| Small spill | : Stop leak if without risk. Move containers from spill area. 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. 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

Precautions for safe handling Protective measures : Put on approp

| 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. |
| Conditions for safe storage, including any incompatibilities | : Store in accordance with local regulations. 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. 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

None.

| Appropriate engineering controls | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|-------------------------------------|---|---|
| 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

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Section 8. Exposure controls/personal protection

| the second se | |
|---|---|
| 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. |
| 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. |
| 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. |

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

| Physical state | : | Liquid. |
|---|---|---|
| Color | : | White. |
| Odor | : | Characteristic. |
| Odor threshold | : | Not available. |
| рН | : | 8 [DIN EN 1262] |
| Melting point/freezing point | : | Not available. |
| Boiling point, initial boiling point, and boiling range | : | Not available. |
| Flash point | : | Øosed cup: 105°C (221°F) [Pensky-Martens] |
| Flammability | : | Not available. |
| Lower and upper explosion limit/flammability limit Vapor pressure | : | Not available. |
| | | |



Section 9. Physical and chemical properties and safety characteristics

| | | Vapor Press | ure at 20°C | ۱ | Vapor pressure at 50°C | | |
|---|---|---------------------------|--|------------------|------------------------|-----------------------|--|
| Ingredient name | mm Hg | | Method | mm Hg | kPa | Method | |
| ammonia, anhydrous | 72.31 | 9.6 | | | | | |
| octamethylcyclotetrasiloxane | 0.99 | 0.13 | | | | | |
| 2-butoxyethanol | 0.75 | 0.1 | | | | | |
| Polyether modified siloxane | 0.75 | 0.1 | | | | | |
| decamethylcyclopentasiloxane | 0.25 | 0.033 | | | | | |
| ,,,, | | | | | | | |
| aluminium hydroxide | < 0.075 | < 0.01 | | | | | |
| N,N'-ethylenedi(stearamide) 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] | 0.00087 <0.00000 | 0.00012 075 <0.0000001 | OECD 104 | | | | |
| | 0 | 0 | | | | | |
| propylidynetrimethanol Relative vapor density | | available. | | | | | |
| Density | · | | N ISO 2811-1] | | | | |
| Solubility(ies) | : | | | | | | |
| Media | - | Result | | | | | |
| cold water | | Soluble [OESC |) (TG 105)] | | | | |
| Partition coefficient: n- | • Not / | applicable. | (/] | | | | |
| octanol/water | | appiloanic. | | | | | |
| Auto-ignition temperature | : | | | | | | |
| Ingredient name | | °C | °F | М | ethod | | |
| 2-butoxyethanol | | 230 | 446 | DI | N 51794 | | |
| Paraffin waxes and Hydrocarbon v | vaxes | 244.85 | 472.7 | | | | |
| Ethene, homopolymer | | 330 to 41 | 0 626 to 77 | 0 | | | |
| dodecamethylcyclohexasiloxane | | 368 to 37 | '1 694.4 to | 699.8 | | | |
| decamethylcyclopentasiloxane | | 372 | 701.6 | AS | STM E 659-78 | | |
| N,N'-ethylenedi(stearamide) | | 380 | 716 | DI | N 51794 | | |
| octamethylcyclotetrasiloxane | | 384 to 38 | 723.2 to | 728.6 AS | STM E 659 | | |
| ammonia, anhydrous | | 651 | 1203.8 | | | | |
| | . NI-4 | available. | 1200.0 | | | | |
| Decomposition temperature Viscosity | : 🕅 | matic (room te | mperature): 431 m 04°F)): 201 mm²/s | | | | |
| Particle characteristics | . Not | applicable | | | | | |
| Median particle size : Not applicable. | | | | | | | |
| Section 10. Stabi | lity an | d reactiv | vity | | | | |
| Reactivity | : Nos | specific test da | ta related to reactiv | vity available f | or this prod | luct or its ingredien | |
| Chemical stability | : The | product is stat | ble. | | | | |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. | | | | | | |
| Conditions to avoid | : No specific data. | | | | | | |
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Section 10. Stability and reactivity

Incompatible materials : No specific data.

| Hazardous decomposition | : Under normal conditions of storage and use, hazardous decomposition products |
|-------------------------|--|
| products | should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

| Eye contact | : No known significant effects or critical hazards. |
|--------------|---|
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : No specific data. |
|--------------|--|
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |

Section 11. Toxicological information

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 : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 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.

Section 12. Ecological information

<u>Toxicity</u>

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>

Soil/water partition : Not available. coefficient (K_{oc})

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | UN | IMDG | ΙΑΤΑ |
|-------------------------------|----------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class(es) | - | - | - |
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |

Additional information

| IMDG | : MDG Code Segregation group Not applicable |
|------|---|
|------|---|

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

Inventory list

| : | Not determined. |
|---|-----------------|

| Australia | : Not determined. |
|-------------------------|--|
| Canada | : At least one component is not listed. |
| China | : Not determined. |
| Eurasian Economic Union | : Russian Federation inventory: Not determined. |
| Japan | : Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. |
| New Zealand | : Not determined. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan | : Not determined. |
| Thailand | : Not determined. |
| Turkey | : Not determined. |
| United States | : Not determined. |
| Viet Nam | : Not determined. |

Section 16. Other information

| : 9 December 2022 |
|-------------------|
| : 9 December 2022 |
| : 7 December 2022 |
| : 1.01 |
| : |
| |

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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 | |
| Dressdure used to derive | the eleccification | |

Procedure used to derive the classification

| Classification | Justification |
|---|--------------------|
| KIN SENSITIZATION - Category 1 | Calculation method |
| AQUATIC HAZARD (ACUTE) - Category 3 | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 3 | Calculation method |

✓ 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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