

SAFETY DATA SHEET

FR4-45 BASE CREAM

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

| 1.1 Product identifier | |
|------------------------|---------------------|
| Product name | : FR4-45 BASE CREAM |
| SDS code | : 64000300B |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| | Identified uses | |
|------------------------|--------------------------------|--|
| Waterborne paint. Pro | ofessional use Industrial use | |
| | Uses advised against | |
| All other uses | | |
| Product use | : Filler for interior use | |
| .3 Details of the supp | plier of the safety data sheet | |
| MAPAERO SA | | |
| 10, Avenue de | e la Rijole CS30098 | |

09103 PAMIERS Cedex France e-mail address of person : PSRA_PAMIERS@akzonobel.com responsible for this SDS

1.4 Emergency telephone number

| National advisory body/Poison Center | | |
|--------------------------------------|------------------------|--|
| Telephone number | : +39 02 6610 1029 | |
| <u>Supplier</u> | | |
| Telephone number | : +33 (0)5 34 01 34 01 | |
| | +33 (0)5 61 60 23 30 | |
| Hours of operation | : | |

SECTION 2: Hazards identification

| 2.1 Classification of the | substance or mixture |
|---|---|
| Product definition | : Mixture |
| Classification accordin | ng to Regulation (EC) No. 1272/2008 [CLP/GHS] |
| ₿kin Sens. 1, H317 Aquatic Chronic 3, H412 | |
| The product is classified | as hazardous according to Regulation (EC) 1272/2008 as amended. |
| See Section 16 for the fu | Ill text of the H statements declared above. |
| See Section 11 for more | detailed information on health effects and symptoms. |

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|---|----|---|
| SECTION 2: Hazards | ic | lentification |
| 2.2 Label elements | | |
| Hazard pictograms | : | |
| Signal word | : | Warning |
| Hazard statements | : | May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. |
| Precautionary statements | | |
| Prevention | : | Wear protective gloves. Avoid release to the environment. Avoid breathing vapor. |
| Response | : | Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. |
| Storage | : | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | : | 7,2-benzisothiazol-3(2H)-one C(M)IT/MIT(3:1) |
| Supplemental label elements | : | \overline{W} arning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. |
| Special packaging requirem | en | ts |
| Containers to be fitted with child-resistant fastenings | : | Not applicable. |
| Tactile warning of danger | : | Not applicable. |
| 2.3 Other hazards | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other hazards which do not result in classification | : | None known. |

SECTION 3: Composition/information on ingredients

| 3.2 Mixtures | : Mixture | | | | |
|----------------------------------|---------------------------------|------|--|--|-------|
| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
| 7,2-benzisothiazol-3(2H)- one | EC: 220-120-9 CAS: 2634-33-5 | ≤0.1 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 | ATE [Oral] = 500 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1 | [1] |
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| | Γ | R4-45 BASE | CREAM | | |
|-----------------|--|------------|---|--|-----|
| SECTION 3: Co | mposition/informat | ion on | ingredients | | |
| C(M)IT/MIT(3:1) | REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5 | ≤0.1 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 | ATE [Oral] = 100 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l Skin Corr. 1C, H314: C $\geq 0.6\%$ Skin Irrit. 2, H315: $0.06\% \leq C < 0.6\%$ Skin Sens. 1, H317: C $\geq 0.0015\%$ M [Acute] = 100 M [Chronic] = 100 | [1] |
| | | | See Section 16 for the full text of the H statements declared above. | | |

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures : Immediately flush eves with plenty of water, occasionally lifting the upper and lower Eve contact evelids. 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. : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Skin contact 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. : Wash out mouth with water. Remove dentures if any. If material has been Ingestion 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. 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. 0 40 0000 Da

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 1,2-benzisothiazol-3(2H)-one, C(M)IT/MIT(3:1). May produce an allergic reaction.

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|---------------------|---|
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

| | 3 | | |
|--|--|--|--|
| 5.1 Extinguishing media | | | |
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. | | |
| Unsuitable extinguishing media | None known. | | |
| 5.2 Special hazards arising f | from the substance or mixture | | |
| Hazards from the substance or mixture | 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 combustion products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides | | |
| 5.3 Advice for firefighters | | | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. | | |
| | | | |

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SECTION 5: Firefighting measures

| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|---|---|
|---|---|

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| • | |
|--------------------------------|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responde | rs : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |
| 6.3 Methods and materials | for containment and cleaning up |
| Small spill | : Stop leak if without risk. Move containers from spill area. 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 |

Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
 6.4 Reference to other sections
 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

See Section 13 for additional waste treatment information.

7.1 Precautions for safe handling

| Protective measures | history of skin sensitiza which this product is us Avoid breathing vapor o original container or an | sonal protective equipment (see Section 8). Persons with a tion problems should not be employed in any process in sed. Do not get in eyes or on skin or clothing. Do not inges or mist. Avoid release to the environment. Keep in the approved alternative made from a compatible material, kep in use. Empty containers retain product residue and can be se container. | t. ot |
|--|--|--|----------|
| Advice on general occupational hygiene | handled, stored and pro eating, drinking and sm | noking should be prohibited in areas where this material is occessed. Workers should wash hands and face before noking. Remove contaminated clothing and protective ring eating areas. See also Section 8 for additional measures. | |
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SECTION 7: Handling and storage

7.2 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.

| 7.3 Specific end use(s) | |
|--------------------------------------|------------------|
| Recommendations | : Not available. |
| Industrial sector specific solutions | : Not available. |

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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

DNELs/DMELs

| Product/ingredient nan | ne Type | Exposure | Value | Population | Effects |
|-----------------------------|-------------|--------------------------|------------------------|-----------------------|----------|
| 2-benzisothiazol-3(2H)-one | DNEL | Long term Dermal | 0.345 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.966 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.2 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 6.81 mg/m ³ | | Systemic |
| C(M)IT/MIT(3:1) | DNEL | Long term Inhalation | 0.02 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 0.02 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m ³ | | Local |
| | DNEL | Long term Oral | 0.09 mg/ kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.11 mg/ kg bw/day | General population | Systemic |
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SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available.

| 8.2 Exposure controls | |
|----------------------------------|---|
| Appropriate engineering controls | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Individual protection meas | ures |
| 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. |
| | The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

| : Liquid. |
|-------------------|
| : White. |
| : Characteristic. |
| |

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| | al and che | inical pr | operties | | | |
|---|---|---|--|------------|--------------------|--------------|
| Ddor threshold | : Not a | | | | | |
| | | vailable. | | | | |
| nitial boiling point and poiling range | : Not a | vailable. | | | | |
| Flammability | : Not a | vailable. | | | | |
| Lower and upper explosion imit | n : Nota | vailable. | | | | |
| Flash point | : 🕅 | d cup: 105°C | C (221°F) [Pensky | /-Martens] | | |
| Auto-ignition temperature | : | | | | | |
| Ingredient name | | °C | °F | | Method | |
| <mark>2-</mark> butoxyethanol | | 230 | 446 | | DIN 51794 | |
| Paraffin waxes and Hydrocarbon | waxes | 244.85 | 472.7 | | | |
| Ethene, homopolymer | | 330 to 410 | 626 to 770 | b | | |
| dodecamethylcyclohexasiloxane | | 368 to 371 | 694.4 to 6 | 99.8 | | |
| decamethylcyclopentasiloxane | | 372 | 701.6 | | ASTM E 659-78 | |
| N,N'-ethylenedi(stearamide) | | 380 | 716 | | DIN 51794 | |
| octamethylcyclotetrasiloxane | | 384 to 387 | 723.2 to 7 | 28.6 | ASTM E 659 | |
| ammonia, anhydrous | | 651 | 1203.8 | | | |
| Solubility(ies) Media Øold water | : Res | natic (40°C): | 201 mm²/s [DIN | EN ISO 32 | N EN ISO 32 19] | |
| Media Fold water Partition coefficient: n-octa | : Res | natic (40°C): sult | 201 mm²/s [DIN | EN ISO 32 | [19] | |
| Media Fold water Partition coefficient: n-octa | : Res Solu anol/ : Not a : | natic (40°C): ult uble [OESO (| 201 mm²/s [DIN (TG 105)] | | .19] | sure at 50°C |
| Media Fold water Partition coefficient: n-octa | : Res Solu anol/ : Not a : | natic (40°C): ult uble [OESO (pplicable. | 201 mm²/s [DIN (TG 105)] | mm Hg | Vapor prese | |
| Media Fold water Partition coefficient: n-octa vater /apor pressure | : Res Solu anol/: Not a : Vaj | natic (40°C): ult uble [OESO (pplicable. | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Fold water Partition coefficient: n-octa vater /apor pressure | : Res Solu anol/ : Not a : Vap mm Hg | natic (40°C): ult uble [OESO (pplicable. por Pressure kPa | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Fold water Partition coefficient: n-octa vater /apor pressure Ingredient name | : Res Solu anol/ : Not a : Vaj <u>mm Hg</u> 72.31 | natic (40°C): ult uble [OESO (pplicable. por Pressure kPa 9.6 | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Fold water Partition coefficient: n-octa vater /apor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane | : Res Solu anol/ : Not a : Vaj <u>mm Hg</u> 72.31 0.99 | natic (40°C): sult uble [OESO (pplicable. por Pressure kPa 9.6 0.13 | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octa vater /apor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol | : Res Solu anol/ : Not a : Vaj 72.31 0.99 0.75 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octa water /apor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane | : Res Solu anol/ : Not a : Vay 72.31 0.99 0.75 0.75 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octa water /apor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane | : Res Solu anol/ : Not a : Vaj 72.31 0.99 0.75 0.75 0.25 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.033 | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Media Fold water Partition coefficient: n-octa water Vapor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane aluminium hydroxide | : Res Solu anol/ : Not a : Va mm Hg 72.31 0.99 0.75 0.75 0.25 <0.075 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.1 0.033 <0.01 | 201 mm²/s [DIN (TG 105)] e at 20°C | EN ISO 32 | Vapor prese | sure at 50°C |
| Partition coefficient: n-octavater Vapor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane aluminium hydroxide N,N'-ethylenedi(stearamide) 1,1'-(ethane-1,2-diyl)bis | : Res Solu anol/ : Not a : Vaj 72.31 0.99 0.75 0.75 0.75 0.25 <0.075 0.00087 | natic (40°C): sult uble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.1 0.033 <0.01 0.00012 | 201 mm²/s [DIN (TG 105)] e at 20°C Method | | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octa water Vapor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane aluminium hydroxide N,N'-ethylenedi(stearamide) 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] propylidynetrimethanol Density | : Res Solut anol/ : Not a : Var 72.31 0.99 0.75 0.75 0.25 <0.075 0.00087 <0.0000075 0 0 : 1.508 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.033 <0.01 0.00012 <0.0000001 0 g/cm³ [DIN | 201 mm²/s [DIN (TG 105)] e at 20°C Method | | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octa water Vapor pressure Ingredient name minonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane aluminium hydroxide N,N'-ethylenedi(stearamide) 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] propylidynetrimethanol Density Vapor density | : Res Solut anol/ : Not a : Var 72.31 0.99 0.75 0.75 0.25 <0.075 0.00087 <0.0000075 0 0 : 1.508 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.033 <0.01 0.00012 <0.0000001 0 | 201 mm²/s [DIN (TG 105)] e at 20°C Method | | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octavater /apor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane aluminium hydroxide N,N'-ethylenedi(stearamide) 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] propylidynetrimethanol Density /apor density | : Res Solut anol/ : Not a : Var 72.31 0.99 0.75 0.75 0.25 <0.075 0.00087 <0.0000075 0 0 : 1.508 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.033 <0.01 0.00012 <0.0000001 0 g/cm³ [DIN | 201 mm²/s [DIN (TG 105)] e at 20°C Method | | Vapor prese | sure at 50°C |
| Media Cold water Partition coefficient: n-octa water Vapor pressure Ingredient name mmonia, anhydrous octamethylcyclotetrasiloxane 2-butoxyethanol Polyether modified siloxane decamethylcyclopentasiloxane aluminium hydroxide N,N'-ethylenedi(stearamide) 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] propylidynetrimethanol Density | : Res Solut anol/ : Not a : Var 72.31 0.99 0.75 0.75 0.25 <0.075 0.00087 <0.0000075 0 0 : 1.508 | natic (40°C): Jult Juble [OESO (pplicable. bor Pressure kPa 9.6 0.13 0.1 0.1 0.1 0.033 <0.01 0.00012 <0.0000001 0 g/cm ³ [DIN wilable. | 201 mm²/s [DIN (TG 105)] e at 20°C Method | | Vapor press kPa | sure at 50°C |

| SECTION 9: Physical and chemical properties | | | | |
|---|--|--|--|--|
| Median particle size | : Not applicable. | | | |
| SECTION 10: Stabi | lity and reactivity | | | |
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. | | | |
| 10.2 Chemical stability | : The product is stable. | | | |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. | | | |
| 10.4 Conditions to avoid | : No specific data. | | | |

| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|--|--|

SECTION 11: Toxicological information

10.5 Incompatible materials : No specific data.

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|----------------------------------|--------------------------|---------|------------|----------|
| ✓,2-benzisothiazol-3(2H)- one | LD50 Oral | Mouse | 1150 mg/kg | - |
| | LD50 Oral | Rat | 1020 mg/kg | - |
| Conclusion/Summary | : Not available. | | | |
| rritation/Corrosion | | | | |
| Conclusion/Summary | : Not available. | | | |
| <u>Sensitization</u> | | | | |
| Conclusion/Summary | : Not available. | | | |
| <u>Mutagenicity</u> | | | | |
| Conclusion/Summary | : Not available. | | | |
| Carcinogenicity | | | | |
| Conclusion/Summary | : Not available. | | | |
| Reproductive toxicity | | | | |
| Conclusion/Summary | : Not available. | | | |
| <u>Feratogenicity</u> | | | | |
| Conclusion/Summary | : Not available. | | | |
| Specific target organ toxicity | <u>(single exposure)</u> | | | |
| Not available. | | | | |
| Specific target organ toxicity | (repeated exposure) | | | |
| Not available. | · · · · · · · | | | |

Aspiration hazard

Not available.

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| | ological information |
|---|--|
| Information on the likely routes of exposure | : Not available. |
| Potential acute health effect | <u>ts</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. |
| Symptoms related to the ph | nysical, 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. |
| Delayed and infinediate ene | ects and also chronic effects from short and long term exposure |
| <u>Short term exposure</u> Potential immediate effects | : Not available. |
| Potential immediate | |
| Potential immediate effects | |
| Potential immediate effects Potential delayed effects | |
| Potential immediate effects Potential delayed effects <u>Long term exposure</u> Potential immediate | : Not available. : Not available. |
| Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects | Not available. Not available. Not available. |
| Potential immediate effects Potential delayed effects <u>Long term exposure</u> Potential immediate effects Potential delayed effects | Not available. Not available. Not available. |
| Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health ef | Not available. Not available. Not available. |
| Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health ef Not available. | Not available. Not available. Not available. ifects |
| Potential immediate effects Potential delayed effects <u>Long term exposure</u> Potential immediate effects Potential delayed effects <u>Potential chronic health effects</u> Not available. Conclusion/Summary | Not available. Not available. Not available. iffects Not available. Once sensitized, a severe allergic reaction may occur when subsequently exposed |
| Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. Conclusion/Summary General | Not available. Not available. in Not available. iffects in Not available. in Not available. in Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |

11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

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

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SECTION 12: Ecological information

| Product/ingredient name | Result | Species | Exposure |
|-----------------------------|--------------------------------------|-------------------------------------|----------|
| ,2-benzisothiazol-3(2H)-one | Acute EC50 97 ppb Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 2.24 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 3.7 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 1.1 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 2 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 10 to 20 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia | 48 hours |
| | Acute LC50 540 ppb Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 167 ppb Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 0.75 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 1.8 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 1.6 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

| Soil/water partition coefficient (Koc) | : Not available. |
|--|------------------|
| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

| <u>Product</u> | |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| Hazardous waste | : The classification of the product may meet the criteria for a hazardous waste. |

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SECTION 13: Disposal considerations

| Disposal considerations | : Do not allow to enter drains or watercourses. |
|-------------------------|--|
| | Dispose of according to all federal, state and local applicable regulations. |
| | If this product is mixed with other wastes, the original waste product code may no |
| | longer apply and the appropriate code should be assigned. |
| | For further information, contact your local waste authority. |

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation | | |
|-------------------------|---|--|--|
| EWC 08 01 12 | waste paint and varnish other than those mentioned in 08 01 11 | | |
| Packaging | | | |
| Methods of disposal | : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. | | |
| Disposal considerations | Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. | | |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. | | |

SECTION 14: Transport information

| | ADR/RID | IMDG | ΙΑΤΑ |
|--|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - |
| 14.4 Packing group | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. |
| Additional information IMDG : IMDG Code Segregation group Not applicable | | | |
| 14.6 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. | | | |

14.7 Maritime transport in : Not applicable. **bulk according to IMO instruments**

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|---|--|--|--|--|--|
| SECTION 15: Regulatory information | | | | | |
| - | onmental regulations/legislation specific for the substance or mixture | | | | |
| EU Regulation (EC) No. 190 | | | | | |
| Annex XIV - List of substan | nces subject to authorization | | | | |
| None of the components a | ire listed. | | | | |
| Substances of very high | <u>concern</u> | | | | |
| None of the components a | ire listed. | | | | |
| Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | | | | | |
| <u>Other EU regulations</u> VOC | : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information. | | | | |
| VOC for Ready-for-Use Mixture | : Not available. | | | | |
| Industrial emissions : Not listed (integrated pollution prevention and control) - Air | | | | | |
| Industrial emissions (integrated pollution prevention and control) - Water | : Not listed | | | | |
| Ozone depleting substanc Not listed. | <u>es (1005/2009/EU)</u> | | | | |
| <u>Prior Informed Consent (P</u> Not listed. | <u>IC) (649/2012/EU)</u> | | | | |
| Persistent Organic Polluta Not listed. | <u>nts</u> | | | | |
| <u>Seveso Directive</u> | | | | | |
| This product is not controlled | d under the Seveso Directive. | | | | |
| National regulations | | | | | |
| Industrial use | : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work. | | | | |
| D.Lgs. 152/06 | : Not determined. | | | | |
| International regulations | | | | | |
| | ion List Schedules I, II & III Chemicals | | | | |
| Not listed. | | | | | |
| <u>Montreal Protocol</u> Not listed. | | | | | |
| | Persistent Organic Pollutants | | | | |
| | | | | | |

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SECTION 15: Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| Eurasian Economic Union | : | Russian Federation inventory: Not determined. |
|-------------------------|---|---|
|-------------------------|---|---|

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement |
|----------------------------|---|
| | N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|--------------------|
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

| F 301 | Toxic if swallowed. |
|--------------|---|
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

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SECTION 16: Other information

| Acute Tox. 2 | | ACUTE TOXICITY - Category 2 | |
|---------------------------------|-------------------|---|--|
| Acute Tox. 3 | | ACUTE TOXICITY - Category 3 | |
| Acute Tox. 4 | | ACUTE TOXICITY - Category 4 | |
| Aquatic Acute 1 | | AQUATIC HAZARD (ACUTE) - Category 1 | |
| Aquatic Chronic 1 | | AQUATIC HAZARD (LONG-TERM) - Category 1 | |
| Aquatic Chronic 2 | | AQUATIC HAZARD (LONG-TERM) - Category 2 | |
| Aquatic Chronic 3 | | AQUATIC HAZARD (LONG-TERM) - Category 3 | |
| Eye Dam. 1 | | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | |
| Skin Corr. 1C | | SKIN CORROSION/IRRITATION - Category 1C | |
| Skin Irrit. 2 | | SKIN CORROSION/IRRITATION - Category 2 | |
| Skin Sens. 1 | | SKIN SENSITIZATION - Category 1 | |
| Skin Sens. 1A | | SKIN SENSITIZATION - Category 1A | |
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|------------------------|-------------------|--|
| Version | : 2 | |
| Unique ID | : | |

Notice to reader

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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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