

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

077704620

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

077704612

|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                                                                             |                                        |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------|----|
| <b>Zhermack S.p.a</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            | Revision nr.1<br>Dated 14/12/2011<br>Printed on 14/12/2011<br>Page n. 1 / 6 |                                        | EN |
| <b>C300102/C300100/C300101 - FREEALGIN 380 ML</b>                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                             |                                        |    |
| <h2 style="text-align: center;">Safety Data Sheet</h2>                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                                                             |                                        |    |
| <b>1. Identification of the substance/mixture and of the company/undertaking</b>                                                                                                                                                                                                                                                                                                                                                                            |                                            |                                                                             |                                        |    |
| <b>1.1. Product identifier</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                                                             |                                        |    |
| Code:                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C300102/C300100/C300101                    |                                                                             |                                        |    |
| Product name                                                                                                                                                                                                                                                                                                                                                                                                                                                | FREEALGIN 380 ML                           |                                                                             |                                        |    |
| <b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>                                                                                                                                                                                                                                                                                                                                                                   |                                            |                                                                             |                                        |    |
| Intended use                                                                                                                                                                                                                                                                                                                                                                                                                                                | Addition silicone for impression material. |                                                                             |                                        |    |
| <b>1.3. Details of the supplier of the safety data sheet</b>                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                                                                             |                                        |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Zhermack S.p.a                             |                                                                             |                                        |    |
| Full address                                                                                                                                                                                                                                                                                                                                                                                                                                                | Via Bovazecchino                           |                                                                             |                                        |    |
| District and Country                                                                                                                                                                                                                                                                                                                                                                                                                                        | 45021                                      | Badia Polesine                                                              | (RO)                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            | Italy                                                                       |                                        |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tel.                                       | +39 0425-597611                                                             |                                        |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fax                                        | +39 0425-53596                                                              |                                        |    |
| e-mail address of the competent person responsible for the Safety Data Sheet                                                                                                                                                                                                                                                                                                                                                                                | tania.demetri@zhermack.com                 |                                                                             |                                        |    |
| <b>1.4. Emergency telephone number</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                                                             |                                        |    |
| For urgent inquiries refer to                                                                                                                                                                                                                                                                                                                                                                                                                               | +39 0425-597611                            |                                                                             |                                        |    |
| <b>2. Hazards identification.</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                             |                                        |    |
| <b>2.1. Classification of the substance or mixture.</b>                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                             |                                        |    |
| The product is not classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments. |                                            |                                                                             |                                        |    |
| <b>2.2. Label elements.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                                                             |                                        |    |
| Pictograms:                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                         |                                                                             |                                        |    |
| Warning:                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                         |                                                                             |                                        |    |
| Hazard indication:                                                                                                                                                                                                                                                                                                                                                                                                                                          | --                                         |                                                                             |                                        |    |
| Caution recommendations:                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                         |                                                                             |                                        |    |
| Safety data sheet available for professional users on request.                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                                                             |                                        |    |
| <b>2.3. Other hazards.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                                                             |                                        |    |
| Information not available.                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                                                             |                                        |    |
| <b>3. Composition/information on ingredients.</b>                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                             |                                        |    |
| <b>3.1. Substances.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                             |                                        |    |
| Information not relevant.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |                                                                             |                                        |    |
| <b>3.2. Mixtures.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                                                                             |                                        |    |
| <b>Contains:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |                                                                             |                                        |    |
| <b>Identification.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Conc.%. Cant.</b>                       | <b>Classification 67/548/EEC.</b>                                           | <b>Classification 1272/2008 (CLP).</b> |    |
| <b>CRISTOBALITE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                                                                             |                                        |    |
| CAS. 14464-46-1                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 - 9                                      | Xn R48/20                                                                   | STOT RE 2 H373                         |    |
| EC. -                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                                                                             |                                        |    |
| INDEX. -                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |                                                                             |                                        |    |

**TRIDIMITE**

CAS. 15468-32-3 5 - 9 Xn R48/20

STOT RE 2 H373

EC. 239-487-1

INDEX. -

**QUARTZ**

CAS. 14808-60-7 5 - 9 Xn R48/20

STOT RE 2 H373

EC. 238-878-4

INDEX. -

**COMPLESSO DI PT TETRAMETILDISILOSSANO IN POLI DIMETILSILOSSANO VINIL TERMINATO**

CAS. 68478-92-2 1 - 5 Xi R36/37/38

Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

EC. -

INDEX. -

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

**4. First aid measures.****4.1. Description of first aid measures.**

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed.**

For symptoms and effects caused by the contained substances see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Follow doctor's orders.

**5. Firefighting measures.****5.1. Extinguishing media.**

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

**5.2. Special hazards arising from the substance or mixture.**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

**5.3. Advice for firefighters.**

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health.

Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

**6. Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures.**

If there are no contraindications, spray powder with water to prevent the formation of dust. Use breathing equipment if powders are released into the air.

**6.2. Environmental precautions.**

The product must not penetrate the sewer system, surface water, ground water and neighbouring areas.

**6.3. Methods and material for containment and cleaning up.**

Use mechanical tools to collect leaked product and eliminate the remainder using jets of water. Make sure the leakage site is well aired.

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
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| Zhermack S.p.a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |         |        |     | Revision nr.1<br>Dated 14/12/2011<br>Printed on 14/12/2011<br>Page n. 3 / 6 |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| C300102/C300100/C300101 - FREEALGIN 380 ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 7. Handling and storage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 7.1. Precautions for safe handling.<br>Store in closed, labelled containers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 7.2. Conditions for safe storage, including any incompatibilities.<br>Normal storage conditions without particular incompatibilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 7.3. Specific end use(s).<br>Information not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 8. Exposure controls/personal protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 8.1. Control parameters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| <table><tr><td>Name</td><td>Type</td><td>Country</td><td>TWA/8h</td><td></td><td>STEL/15min</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>mg/m3</td><td>ppm</td><td>mg/m3</td><td>ppm</td><td></td></tr><tr><td>QUARTZ</td><td>TLV-ACGIH</td><td></td><td>0,025</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>OEL</td><td>IRL</td><td>0,05</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>WEL</td><td>UK</td><td>0,3</td><td></td><td></td><td></td><td></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |         |        |     |                                                                             |     |  |  | Name       | Type           | Country | TWA/8h |       | STEL/15min |                  |                |     |                |                            | mg/m3          | ppm            | mg/m3          | ppm                 |                | QUARTZ       | TLV-ACGIH      |                  | 0,025          |                                  |                |                             |                |                             | OEL            | IRL                    | 0,05           |                        |                |                  |                |                | WEL            | UK                | 0,3            |            |                    |                                        |                |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Type               | Country | TWA/8h |     | STEL/15min                                                                  |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
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| QUARTZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TLV-ACGIH          |         | 0,025  |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
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| 8.2. Exposure controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| <p>As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent.</p> <p>HAND PROTECTION</p> <p>Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves` limit depends on the duration of exposure.</p> <p>SKIN PROTECTION</p> <p>Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.</p> <p>RESPIRATORY PROTECTION</p> <p>If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company`s prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).</p> <p>The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.</p> <p>If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).</p> <p>EYE PROTECTION</p> <p>Use of protective airtight goggles (ref. standard EN 166) recommended.</p> |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 9. Physical and chemical properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| 9.1. Information on basic physical and chemical properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| <table><tr><td>Appearance</td><td>viscous liquid</td></tr><tr><td>Colour</td><td>violet</td></tr><tr><td>Odour</td><td>mangustan</td></tr><tr><td>Odour threshold.</td><td>Not available.</td></tr><tr><td>pH.</td><td>Not available.</td></tr><tr><td>Melting or freezing point.</td><td>Not available.</td></tr><tr><td>Boiling point.</td><td>Not available.</td></tr><tr><td>Distillation range.</td><td>Not available.</td></tr><tr><td>Flash point.</td><td>Not available.</td></tr><tr><td>Evaporation Rate</td><td>Not available.</td></tr><tr><td>Flammability of solids and gases</td><td>Not available.</td></tr><tr><td>Lower inflammability limit.</td><td>Not available.</td></tr><tr><td>Upper inflammability limit.</td><td>Not available.</td></tr><tr><td>Lower explosive limit.</td><td>Not available.</td></tr><tr><td>Upper explosive limit.</td><td>Not available.</td></tr><tr><td>Vapour pressure.</td><td>Not available.</td></tr><tr><td>Vapour density</td><td>Not available.</td></tr><tr><td>Specific gravity.</td><td>Not available.</td></tr><tr><td>Solubility</td><td>insoluble in water</td></tr><tr><td>Partition coefficient: n-octanol/water</td><td>Not available.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |         |        |     |                                                                             |     |  |  | Appearance | viscous liquid | Colour  | violet | Odour | mangustan  | Odour threshold. | Not available. | pH. | Not available. | Melting or freezing point. | Not available. | Boiling point. | Not available. | Distillation range. | Not available. | Flash point. | Not available. | Evaporation Rate | Not available. | Flammability of solids and gases | Not available. | Lower inflammability limit. | Not available. | Upper inflammability limit. | Not available. | Lower explosive limit. | Not available. | Upper explosive limit. | Not available. | Vapour pressure. | Not available. | Vapour density | Not available. | Specific gravity. | Not available. | Solubility | insoluble in water | Partition coefficient: n-octanol/water | Not available. |
| Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | viscous liquid     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Colour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | violet             |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Odour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mangustan          |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Odour threshold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| pH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Melting or freezing point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Boiling point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Distillation range.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Flash point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Evaporation Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Flammability of solids and gases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Lower inflammability limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Upper inflammability limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Lower explosive limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Upper explosive limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Vapour pressure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Vapour density                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Specific gravity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Solubility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | insoluble in water |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |
| Partition coefficient: n-octanol/water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not available.     |         |        |     |                                                                             |     |  |  |            |                |         |        |       |            |                  |                |     |                |                            |                |                |                |                     |                |              |                |                  |                |                                  |                |                             |                |                             |                |                        |                |                        |                |                  |                |                |                |                   |                |            |                    |                                        |                |

| Zhermack S.p.a                                                                                                                                                                                                                                                                                                                                               |                             | Revision nr.1<br>Dated 14/12/2011<br>Printed on 14/12/2011<br>Page n. 4 / 6 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------|
| C300102/C300100/C300101 - FREEALGIN 380 ML                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                              |                             |                                                                             |
| Ignition temperature.                                                                                                                                                                                                                                                                                                                                        | Not available.              |                                                                             |
| Decomposition temperature.                                                                                                                                                                                                                                                                                                                                   | Not available.              |                                                                             |
| Viscosity                                                                                                                                                                                                                                                                                                                                                    | Not available.              |                                                                             |
| Reactive Properties                                                                                                                                                                                                                                                                                                                                          | Not available.              |                                                                             |
| <b>9.2. Other information.</b>                                                                                                                                                                                                                                                                                                                               |                             |                                                                             |
| Solid content:                                                                                                                                                                                                                                                                                                                                               | 61,66 %                     |                                                                             |
| VOC (Directive 1999/13/EC) :                                                                                                                                                                                                                                                                                                                                 | 0                           |                                                                             |
| VOC (volatile carbon) :                                                                                                                                                                                                                                                                                                                                      | 0                           |                                                                             |
| <b>10. Stability and reactivity.</b>                                                                                                                                                                                                                                                                                                                         |                             |                                                                             |
| <b>10.1. Reactivity.</b>                                                                                                                                                                                                                                                                                                                                     |                             |                                                                             |
| There are no particular risks of reaction with other substances in normal conditions of use.                                                                                                                                                                                                                                                                 |                             |                                                                             |
| <b>10.2. Chemical stability.</b>                                                                                                                                                                                                                                                                                                                             |                             |                                                                             |
| The product is stable in normal conditions of use and storage.                                                                                                                                                                                                                                                                                               |                             |                                                                             |
| <b>10.3. Possibility of hazardous reactions.</b>                                                                                                                                                                                                                                                                                                             |                             |                                                                             |
| No hazardous reactions are foreseeable in normal conditions of use and storage.                                                                                                                                                                                                                                                                              |                             |                                                                             |
| <b>10.4. Conditions to avoid.</b>                                                                                                                                                                                                                                                                                                                            |                             |                                                                             |
| None in particular, however the usual precautions used for chemical products should be respected.                                                                                                                                                                                                                                                            |                             |                                                                             |
| <b>10.5. Incompatible materials.</b>                                                                                                                                                                                                                                                                                                                         |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>10.6. Hazardous decomposition products.</b>                                                                                                                                                                                                                                                                                                               |                             |                                                                             |
| In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.                                                                                                                                                                                                                                                      |                             |                                                                             |
| <b>11. Toxicological information.</b>                                                                                                                                                                                                                                                                                                                        |                             |                                                                             |
| According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.                                  |                             |                                                                             |
| <b>11.1. Information on toxicological effects.</b>                                                                                                                                                                                                                                                                                                           |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>12. Ecological information.</b>                                                                                                                                                                                                                                                                                                                           |                             |                                                                             |
| No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers. |                             |                                                                             |
| <b>12.1. Toxicity.</b>                                                                                                                                                                                                                                                                                                                                       |                             |                                                                             |
| SODIO ALLUMINIO SILICATO                                                                                                                                                                                                                                                                                                                                     |                             |                                                                             |
| LC50 (96h):                                                                                                                                                                                                                                                                                                                                                  | 1800 mg/l Brachydanio rerio |                                                                             |
| EC50 (48h):                                                                                                                                                                                                                                                                                                                                                  | 2808 mg/l Daphnia magna     |                                                                             |
| <b>12.2. Persistence and degradability.</b>                                                                                                                                                                                                                                                                                                                  |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>12.3. Bioaccumulative potential.</b>                                                                                                                                                                                                                                                                                                                      |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>12.4. Mobility in soil.</b>                                                                                                                                                                                                                                                                                                                               |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>12.5. Results of PBT and vPvB assessment.</b>                                                                                                                                                                                                                                                                                                             |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>12.6. Other adverse effects.</b>                                                                                                                                                                                                                                                                                                                          |                             |                                                                             |
| Information not available.                                                                                                                                                                                                                                                                                                                                   |                             |                                                                             |
| <b>13. Disposal considerations.</b>                                                                                                                                                                                                                                                                                                                          |                             |                                                                             |
| <b>13.1. Waste treatment methods.</b>                                                                                                                                                                                                                                                                                                                        |                             |                                                                             |
| Reuse, when possible. Neat product residues should be considered special non-hazardous waste.                                                                                                                                                                                                                                                                |                             |                                                                             |

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 15. Regulatory information.

##### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.  
None.

Substances in Candidate List (Art. 59 REACH).  
None.

Substances subject to authorisation (Annex XIV REACH).  
None.

Healthcare controls.  
Information not available.

##### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

#### 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                      |                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STOT RE 2</b>     | Specific target organ toxicity - repeated exposure, category 2                                                                                                                                                       |
| <b>Eye Irrit. 2</b>  | Eye irritation, category 2                                                                                                                                                                                           |
| <b>Skin Irrit. 2</b> | Skin irritation, category 2                                                                                                                                                                                          |
| <b>STOT SE 3</b>     | Specific target organ toxicity - single exposure, category 3                                                                                                                                                         |
| <b>H373</b>          | May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. |
| <b>H319</b>          | Causes serious eye irritation.                                                                                                                                                                                       |
| <b>H315</b>          | Causes skin irritation.                                                                                                                                                                                              |
| <b>H335</b>          | May cause respiratory irritation.                                                                                                                                                                                    |

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

|                  |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| <b>R36/37/38</b> | IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.                                      |
| <b>R48/20</b>    | HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION. |

##### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

##### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.



# Global Safety Management, Inc

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To Whom It May Concern:

Freealgin 380 ml.

This product is a kit with multiple components. Please see the individual component SDSs for information.

The GSM Reference numbers are:

GSM-180522

GSM-180523

Sincerely,

The Global Safety Management Team

[www.globalmsdslibrary.com](http://www.globalmsdslibrary.com)

1-813-435-5161