

SAFETY DATA SHEETS

This SDS packet was issued with item:

074146429

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).

074146304 074146312 074146403 074146452 074146460 074146478 074146486

KERR

Material Safety Data Sheet

in accordance with Community Regulation 2006/1907/EC (R.E.A.Ch.)

Revision Date: 17th September 2009

SECTION 1

Product & Company identification

1.1 Product name

AL-GI-NOT Base Paste (All viscosities and set times, cartridge & bulk)

1.2 Uses/Application:

Dental impression material.

1.3 Company (Name, address and info phone number)

Kerr Corporation

1717 West Collins Avenue

92867 Orange – CALIFORNIA (U.S.A.)

00-800-41-050-505

1.4 Emergency phone (according to communitarian directive 99/45/EC, article 17)

+39.081.8508.325 (08.00-17.00, European time, GMT+1)

E-mail address: safety@kerrhawe.com

SECTION 2

Hazard identification

2.1 Hazard classification (according to communitarian directives 67/548/EEC & 99/45/EC)

None.

2.2 Other hazard

None.

SECTION 3

Composition/Information on Ingredients

(according to communitarian directives 67/548/EEC, 99/45/EC & 2001/58/EC)

3.1 Hazardous ingredients

| HAZARDOUS INGREDIENTS | % | HAZARD SYMBOLS | RISK PHRASES | CAS N. | EINECS N. |
|-----------------------|-----|----------------|--------------|--------|-----------|
| None | N/A | N/A | N/A | N/A | N/A |

3.2 Other non-hazardous ingredients

Quartz and hydrophobic silica.

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Flush with water for 15 minutes. Get medical attention.
- 4.2 Treatment for skin contact: Flush with water, then wash with soap and water.
- 4.3 Treatment for inhalation (breathing): Move individual to fresh air.
- 4.4 Treatment for ingestion (swallowing): Do not give fluids or induce vomiting. Get medical attention.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Water spray, carbon dioxide and dry chemical.
- 5.2 Forbidden extinguishing media: None known.
- 5.3 Special fire fighting measures: None known.
- 5.4 Unusual fire and explosion hazards: Irritating fumes may develop when product is heated. Avoid eye and skin contact. Do not breathe fumes.
- 5.5 Special protection equipment: Sealed overall.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: Follow recommended precautions listed in other sections.
- 6.2 Environmental Precautions: Material should not be allowed to drain into sewers.
- 6.3 Reclaiming Methods: Absorb spill with paper towels and transfer into suitable containers.

SECTION 7**Handling and Storage** (according to article 5 of communitarian directive 98/24/EC)

- 7.1 Handling Precautions: Avoid heating of the product.
- 7.2 Precautions in case of Fire and Explosion: Extinguish all ignition sources.
- 7.3 Storage Conditions: Store in a cool, dry area.
- 7.4 Suggested container(s): Original sealed containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid contact with oxidizing agents.
- 7.6 Environmental precautions: Do not allow product to reach sewers and rivers.
- 7.7 Other Precautions: Use according to directions.

| SECTION 8 | |
|---|--|
| Exposure controls/personal protection | |
| 8.1 Exposure Limits: | For Quartz : <u>TWA/TLV</u> : 0,025 mg/m ³ ; For Hydrophobic silica : <u>TWA/TLV</u> : 6 mg/m ³ ; <u>TWA/PEL</u> : 10 mg/m ³ <i>Note: the above occupational exposure limits are referred to substances at native state and therefore intended as pure reference. These chemicals are dispersed into a complex matrix and therefore not easily available.</i> |
| 8.2 Exposure control measures | |
| 8.2.1 Precautionary Measures: (according to communitarian directives 89/686/EEC & article 4 of 98/24/EC) | |
| Ventilation: | <u>Local Exhaust Ventilation</u> : Use the product in a well ventilated area. <u>Special Ventilation</u> : None. <u>Mechanical (General) Ventilation</u> : Should be sufficient. <u>Other Ventilation</u> : None. |
| Respiratory Protection: | Not required. |
| Hands Protection: | Impervious rubber or nitrile gloves. |
| Eyes Protection: | Safety glasses. Do not wear contact lenses. |
| Skin Protection: | Handle in accordance with good personal hygiene and safety practices. |
| Other Protective Equipments: | It would be better use a lab coat. |
| <i>Measures listed in this paragraph are to be considered as indications and NOT prescriptions (89/656/EEC)</i> | |
| 8.2.2 Environment exposure control measures Not Applicable. | |

| SECTION 9 | |
|--|--|
| Physical and Chemical Properties | |
| 9.1 General information | |
| <u>Appearance</u> : Light yellow paste | <u>Odour</u> : Slight fruity odour |
| 9.2 Information related to health, safety and environment | |
| <u>pH</u> : Not determined (N/D) | <u>Relative density</u> : Not available |
| <u>Boiling point</u> : Not applicable (N/A) | <u>Specific gravity</u> : ~ 1,25 g/ml |
| <u>Flash point</u> : 142°C | <u>Solubility</u> : Insoluble in water |
| <u>Flammability</u> : Not flammable. | <u>Partition coefficient n-octanol/water</u> : N/D |
| <u>Lower Explosivity Limit (L.E.L.)</u> : N/A | <u>Viscosity</u> : N/D |
| <u>Upper Explosivity Limit (U.E.L.)</u> : N/A | <u>Vapour density (air = 1)</u> : N/D |
| <u>Oxidizing properties</u> : None | <u>Evaporation rate (n-butane = 1)</u> : N/A |
| <u>Vapour pressure</u> : N/D | <u>Melting point</u> : N/A |
| 9.3 Other information (according to communitarian directives 94/9/EC): | |
| <u>Miscibility</u> : N/A. | <u>Conducibility</u> : N/A |
| <u>Solubility in Lipids</u> : N/A | <u>Gases Group</u> : N/A |

SECTION 10
Stability and Reactivity

Stability: Stable.

10.1 Conditions to avoid: Elevated temperatures or open flame.

10.2 Materials to avoid (incompatibility): Oxidizing agents.

10.3 Hazardous decomposition products: Not applicable.

Other precautions:

Hazardous Polymerization Products: Will not occur.

Safety significance in case of change in physical appearance: None known

Stabilizers: Product is not stabilized.

SECTION 11
Toxicological Information

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

None.

Effects and hazards of eye contact: May cause irritation.

Effects and hazards of skin contact: May cause mild irritation.

Effects and hazards of Inhalation (Breathing): May cause low or mild irritation.

Effects and hazards of Ingestion (Swallowing): Although ingestion is an unlike event, the product may be harmful if swallowed.

Effects for prolonged Exposure: Unknown.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

| | | |
|---------------------------|------------------------------|---------------|
| Hydrophobic silica | LD ₅₀ (oral rat): | > 5000 mg/Kg |
| Quartz (silica) | LD ₅₀ (oral rat): | > 22500 mg/Kg |

SECTION 12**Ecological Information**

This product has not known ecological hazardous effects.

12.1 Eco-toxicity: Not available

12.2 Mobility: Not available

12.3 Persistence and degradability: Not available

12.4 Bioaccumulative potential: Not available.

12.5 Results of PBT (Persistent Bio-Toxicity) assessment: Not available

12.6 Other adverse effects: Not available

Aquatic toxicity data for single ingredient:

| | | |
|------------------------|--------------------------|-------------------------|
| Quartz (silica) | LC ₅₀ (carp): | > 10000 mg/l (72 hours) |
|------------------------|--------------------------|-------------------------|

SECTION 13**Disposal considerations**

Dispose of in accordance of local regulations.

SECTION 14**Transport information**14.1 Sea transportation (IMDG)

The product is not regulated.

14.2 Air transportation (ICAO/IATA)

The product is not regulated.

14.3 Transportation by Road/Railway (RID/ADR)

The product is not regulated

SECTION 15 (Classification according to communitarian directives 67/548/EEC & 99/45/EC)**Regulatory information**

Hazard labelling not required.

This product is an exempted medical device (directive 1999/45/EC, article 1, paragraph 5g).

SECTION 16**Other information**16.1 Risk phrases of all ingredients

None.

16.1.1 Safety phrases of all ingredients

None.

16.2 Sources of key data used to compile the Safety Data Sheet:European Chemicals Bureau (ECB – www.ecb.jrc.it)European chemical Substances Information System (ESIS - www.ecb.jrc.it/esis)A.C.G.I.H. (www.acgih.org)N.I.O.S.H. (www.cdc.gov/niosh/)O.S.H.A. (www.osha.gov/)U.E. (www.europa.eu/index_it.htm)I.A.R.C. (www.iarc.fr/)N.T.P. (www.ntp.niehs.nih.gov)European Community Directives:

| | |
|-------------|---|
| 67/548/EEC: | Classification, packaging and labelling of dangerous substances. |
| 99/45/EC: | Directive concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations. |
| 2001/58/EC: | Second amendment of directive 91/155/EEC for the definition of a detailed arrangement of specific information relating to dangerous preparations (art. 14 of 99/45/EC) and substances (art. 27 of 67/548/EEC). |
| 89/656/EEC: | Directive on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace (third individual directive within the meaning of Article 16 (1) of Directive 89/391/EEC). |
| 89/686/EEC: | Approximation of the laws of the Member States relating to personal protective equipment. |
| 94/9/EC: | Approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres |
| 98/24/EC: | Protection of the health and safety of workers from the risks related to chemical agents at work. |

Document modification history: First version in compliance of Community Regulation 2006/1907/EC (R.E.A.Ch.)

CAUTION: PRODUCT FOR PROFESSIONAL USE

The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility. This document does not constitute explicit or implicit warranty of product quality or fitness for a particular purpose.

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: AlgiNot

Product Use: Dental product: Impression material

Manufacturer: Kerr Corporation
1717 W. Collins Ave.
Orange, CA 92867-5422
U.S.A.

Information Phone Number: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date of Preparation/Revision: January 10, 2019

Section 2. Hazards Identification

GHS Classification:

Eye Irritation Category 2A

Label Elements:

Warning!



Hazard Phrases

Causes serious eye irritation.

Precautionary Phrases:

Wear eye or face protection.

Wash hands thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Section 3. Composition/Information on Ingredients

| Component | CAS No. | Amount |
|---|------------|--------|
| Quartz | 14808-60-7 | 30-60% |
| Dimethyl siloxane | 63148-62-9 | 30-60% |
| Wollastonite (Ca(SiO ₃)) | 13983-17-0 | 30-60% |
| Dimethyl polysiloxane (Vinyl terminated) | 68083-19-2 | 30-60% |
| Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes | 68478-92-2 | 0.1-1% |

| Component | CAS No. | Amount |
|--|-----------|--------|
| 1,1,3,3-tetramethyl-1,3-divinylidisiloxane | 2627-95-4 | 0.1-1% |

Section 4. First Aid Measures

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Skin Contact: Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

Eye Contact: Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

Most important symptoms and effects, acute and delayed: Causes serious eye irritation.

Indication of immediate medical attention and special treatment, if needed: None required under normal conditions of use.

Section 5. Fire Fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising from the Chemical: Combustion may produce carbon dioxide, carbon monoxide, and metal oxides.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

Section 6: Accidental Release Measures

Personal precautions, Protective equipment, and Emergency procedures: Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment.

Environmental Precautions: Avoid releases to the environment. Report spill as required by local and federal regulations.

Methods and Materials for Containment and Cleaning up: Prompt cleanup and removal are necessary. Clean up any spills as soon as possible, using an absorbent material to collect it. Wash off with plenty of water.

Section 7. Handling and Storage

Precautions for Safe Handling: Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure Controls / Personal Protection

Exposure Limits

| Chemical | Exposure Limit |
|---|---|
| Quartz | 0.025 mg/m ³ TWA ACGIH TLV 0.05 mg/m ³ TWA NIOSH REL (as dust) |
| Dimethyl siloxane | None Established |
| Wollastonite (Ca(SiO ₃)) | 5 mg/m ³ TWA OSHA PEL 10 mg/m ³ TWA ACGIH TLV (total dust) |
| Dimethyl polysiloxane (Vinyl terminated) | None Established |
| Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes | None Established |
| 1,1,3,3-tetramethyl-1,3-divinyldisiloxane | None Established |

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Hand protection: Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

Eye Protection: Chemical safety goggles are recommended if contact is possible.

Skin Protection: Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

Hygiene measures: Suitable eye and skin washing facilities should be available in the work area.

Section 9. Physical and Chemical Properties

| | | | |
|---|-----------------------|----------------------------------|--|
| Appearance: | Various colored paste | Odor: | Fruity |
| Odor Threshold: | Not available | pH: | Not available |
| Melting/Freezing Point: | Not available | Boiling Point/Range: | Not available |
| Flash Point: | 142°C (287.6°F) | Evaporation Rate: | Not available |
| Flammability: (Solid, Gas) | Not applicable | Flammability Limits: | LEL: Not applicable UEL: Not applicable |
| Vapor Pressure: | Not available | Vapor Density: | Not available |
| Relative Density: | 1.25 | Solubilities: | Insoluble in water |
| Partition Coefficient: (N-Octanol/Water) | Not available | Autoignition Temperature: | Not available |
| Decomposition Temperature: | Not available | Viscosity: | Not available |

Section 10. Stability and Reactivity

Reactivity: The product is not expected to be reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid elevated temperature and open flames.

Incompatible Materials: Oxidizing materials.

Hazardous decomposition products: None if stored normally.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: May cause irritation of the nose, throat and upper respiratory tract.

Skin Contact: May cause mild irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Swallowing may cause gastrointestinal irritation and symptoms similar to those described under inhalation.

Chronic Hazards: None expected.

Skin Sensitization: No data available. This product is not expected to cause skin sensitization.

Respiratory Sensitization: No data available. This product is not expected to cause respiratory sensitization.

Germ Cell Mutagenicity: None of the components have shown mutagenic activity in animal studies.

Carcinogen:

Quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC, "Suspected Human Carcinogen" (Group A2) by ACGIH, and "Known to be a Human Carcinogen" by NTP.

None of the other components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

Developmental / Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental toxicity.

Specific Target Organ Toxicity (Single Exposure): No data available.

Specific Target Organ Toxicity (Repeated Exposure): No data available.

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values:

Dimethyl siloxane: LC50 Inhalation rat: > 44 mg/L; LD50 Dermal rabbit > 2000 g/kg;

LD50 Oral rat > 5000 g/kg

Dimethyl polysiloxane (Vinyl terminated): LD50 Oral rat: > 5000 mg/kg;

LD50 Dermal rabbit: > 20000 mg/kg; LC50 Inhalation rat: > 600 mg/m³

1,1,3,3-tetramethyl-1,3-divinyldisiloxane: LD50 Oral rat: > 10 g/kg

Section 12. Ecological Information

Toxicity:

Dimethyl siloxane: 48 hr LC50 Daphnia magna – Instar 44.5 ppm;

96 hr LC50 Ictalurus punctatus 3160 µg/L;

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Section 13. Disposal Considerations

Disposal: For unused product, dispose of in accordance with Federal and local regulations.

Container Disposal: Dispose of empty container in accordance with Federal and local regulations.

Section 14. Transport Information

| | UN Number | UN Proper Shipping Name | Hazard Class(s) | Packing Group | Environmental Hazards |
|-------------------|-----------|--|-----------------|---------------|-----------------------|
| US DOT | None | Not Regulated | | | None |
| EU ADR/RID | UN3082 | Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol, branched, ethoxylated) | 9 | III | Yes |
| IMDG | UN3082 | Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol, branched, ethoxylated) | 9 | III | Yes |
| IATA/ICAO | UN3082 | Environmentally hazardous substance, liquid, n.o.s. | 9 | III | Yes |

| | | | | | |
|--|--|--------------------------------------|--|--|--|
| | | (Nonylphenol, branched, ethoxylated) | | | |
|--|--|--------------------------------------|--|--|--|

Special Precautions for User: None identified

Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

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|---|
| Section 15. Regulatory Information |
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U.S. Federal Regulations:

EPA SARA 311/312 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Protection Of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

International Inventories

US EPA TSCA Inventory: All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

Canada CEPA: All of the components of this material are listed on the DSL or exempt.

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|--------------------------------------|
| Section 16. Other Information |
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Effective Date: January 10, 2019

Supersedes Date: May 20, 2015

Revision Summary: All Sections – New SDS format

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.