

**SILICONE II METAL ALUMINUM GE285/3TG/0.198 Lbs-0.090 Kg
SILICONE II ALUMINUM****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufacturer Name: Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Revised: 11/30/2012

Prepared by
CHEMTREC Product Regulatory Compliance
1-800-424-9300

MSDS Contact
Information 1-888-443-9466
4information@momentive.com

Chemical Family/Use: Sealant

Formula: Mixture

HMIS

Health: 2 Flammability: 1 Reactivity: 0

NFPA

Health: 2 Flammability: 1 Reactivity: 0

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

WARNING! Irritating to eyes, respiratory system and skin. May cause central nervous system depression. Adverse reproductive effects reported in animals.

Form: Paste

Form: Aluminum.

Odor: Ammonia.

POTENTIAL HEALTH EFFECTS**INGESTION**

May be harmful if swallowed.

SKIN

Skin irritation is possible after contact with the uncured product. Uncured product contact will irritate lips, gums and tongue. May be absorbed through skin and produce effects as listed under "Ingestion".

INHALATION

Applies in uncured state. May also cause other effects as listed under "Ingestion".

EYES

Eye irritation on contact with the uncured product.

MEDICAL CONDITIONS AGGRAVATED

Central nervous system disorders. Skin disorders and allergies.

**SILICONE II METAL ALUMINUM GE285/3TG/0.198 Lbs-0.090 Kg
SILICONE II ALUMINUM****SUBCHRONIC (TARGET ORGAN)**

Liver; Central nervous system.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Dermal; Eye; Oral

3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>PRODUCT COMPOSITION</u> | <u>CAS-No.</u> | <u>WGT. %</u> |
|---|----------------|---------------|
| <u>A. HAZARDOUS</u> | | |
| DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE | 64742-46-7 | 5 - 10 % |
| Hexamethyldisilazane | 999-97-3 | 1 - 5 % |
| Methyltrimethoxysilane | 1185-55-3 | 1 - 5 % |
| <u>B. NON-HAZARDOUS</u> | | |
| Methoxypolydimethylsiloxane | 68037-58-1 | 60 - 100 % |
| Treated Filler | 68611-44-9 | 5 - 10 % |
| Polydimethylsiloxane | 63148-62-9 | 5 - 10 % |

4. FIRST AID MEASURES**INGESTION**

If swallowed, do NOT induce vomiting. Give a glass of water.

SKIN

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. If skin irritation occurs: Get medical advice/attention.

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SILICONE II ALUMINUM****INHALATION**

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

EYES

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

NOTE TO PHYSICIAN

None known.

5. FIRE-FIGHTING MEASURES

| | |
|------------------------------|--------------------|
| FLASH POINT: | > 93.3 °C; 200 °F |
| METHOD | Estimated |
| IGNITION TEMPERATURE: | No data available. |
| FLAMMABLE LIMITS LEL: | Not applicable |
| FLAMMABLE LIMITS UEL: | Negligible |

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA

All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

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SILICONE II ALUMINUM****7. HANDLING AND STORAGE****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Avoid contact with skin and eyes. Keep container tightly closed. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Product releases methanol during application and curing. Product releases ammonia during application and curing.

STORAGE

Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS**

Eye wash facilities and emergency shower must be available when handling this product.

RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

PROTECTIVE GLOVES

Cloth gloves.

EYE AND FACE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

| <u>Component</u> | <u>CAS-No.</u> | <u>Source</u> | <u>Value</u> |
|------------------|----------------|---------------|--------------|
|------------------|----------------|---------------|--------------|

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

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SILICONE II ALUMINUM****9. PHYSICAL AND CHEMICAL PROPERTIES**

| | |
|---|-----------------------------|
| BOILING POINT (°C): | Not applicable |
| VAPOR PRESSURE (20 C) (MM HG): | Not applicable |
| FREEZING POINT: | Not applicable |
| PHYSICAL STATE: | Paste |
| ODOR: | Ammonia. |
| Color: | Aluminum. |
| EVAPORATION RATE (BUTYL ACETATE=1): | < 1 |
| SPECIFIC GRAVITY: | ca. 1.05 |
| DENSITY: | ca. 1.048 g/cm ³ |
| ACID / ALKALINITY (MEQ/G): | No data available. |
| pH: | Not applicable |
| SOLUBILITY IN WATER (20 C): | Insoluble |
| SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): | PARTIAL IN TOLUENE |
| VOLATILE ORGANIC CONTENT: | 2.2 %(m) |
| VOC EXCL. H₂O & EXEMPTS (G/L): | 27 g/l |

10. STABILITY AND REACTIVITY**STABILITY**

Stable

HAZARDOUS POLYMERIZATION.

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide; Ammonia.; Silicon dioxide.

INCOMPATIBLE MATERIALS

None known.

CONDITIONS TO AVOID

Applies in uncured state. Reacts with water liberating small amounts of ammonia.

11. TOXICOLOGICAL INFORMATION**ACUTE ORAL**

Remarks: No data available.

CARCINOGENICITY

The National Toxicology Program (NTP) classifies formaldehyde as "known to be a human carcinogen" with respect to nasopharyngeal cancer, sinonasal cancer and myeloid leukemia. The International

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Agency for Research on Cancer (IARC) classifies formaldehyde as "carcinogenic to humans". U.S. OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29 CFR 1920.1048 (the "OSHA Standard"). Safe handling and use instructions are provided in this MSDS and in the OSHA Standard. OSHA has identified 0.5 ppm, calculated as an eight-hour time-weighted average ("TWA") concentration, as the "Action Level". Please review and understand the guidance contained in this MSDS, and refer to the OSHA Standard for regulatory requirements that might be applicable to your operation and use. Many studies and other evaluations have been performed concerning formaldehyde's potential to cause cancer. To review some of these studies and for further information go to www.osha.gov; <http://monographs.iarc.fr>; <http://ntp-server.niehs.nih.gov>; <http://epa.gov>; <http://www.nap.edu> and other authoritative websites then search on formaldehyde.

ACUTE DERMAL

Remarks: No data available.

ACUTE INHALATION

Remarks: No data available.

OTHER

Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

SENSITIZATION

Not applicable

SKIN IRRITATION.

Prolonged contact may cause redness and irritation.

MUTAGENICITY

No data available.

OTHER EFFECTS OF OVEREXPOSURE

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

12. ECOLOGICAL INFORMATION**ECOTOXICITY**

No data available.

DISTRIBUTION

No data available.

**SILICONE II METAL ALUMINUM GE285/3TG/0.198 Lbs-0.090 Kg
SILICONE II ALUMINUM****CHEMICAL FATE**

No data available.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION**Further Information:**

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION**Inventories**

| | | |
|--|----------------------|-------------------|
| Australia Inventory of Chemical Substances (AICS) | y (positive listing) | |
| EU list of existing chemical substances | y (positive listing) | |
| Japan Inventory of Existing & New Chemical Substances (ENCS) | n (Negative listing) | |
| China Inventory of Existing Chemical Substances | y (positive listing) | |
| Korea Existing Chemicals Inventory (KECI) | y (positive listing) | |
| Canada DSL Inventory | y (positive listing) | |
| Canada NDSL Inventory | n (Negative listing) | |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | n (Negative listing) | |
| TSCA list | y (positive listing) | On TSCA Inventory |

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information**SARA (311,312) HAZARD CLASS**

Acute Health Hazard

SARA (313) CHEMICALS

58-36-6, 10, 10'-oxybisphenoxarsine.

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CALIFORNIA PROPOSITION 65

Warning! This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Canadian Regulatory Information**WHMIS CLASSIFICATION**

D2B - Toxic Material Causing Other Toxic Effects
D2A - Very Toxic Material Causing Other Toxic Effects

16. OTHER INFORMATION**OTHER**

C = ceiling limit NEGL = negligible
EST = estimated NF = none found
NA = not applicable UNKN = unknown
NE = none established REC = recommended
ND = none determined V = recommended by vendor
SKN = skin TS = trade secret
R = recommended MST = mist
NT = not tested STEL = short term exposure limit
ppm = parts per million ppb = parts per billion

By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).
, These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.