

Novagard Solutions®

SAFETY DATA SHEET

VERSILUBE G687 SILICONE COMPOUND

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1 PRODUCT NAME:** G 687
- 1.2 IDENTIFIED USES:** Lubricant, additive and silicone dielectric compound
- USES ADVISED AGAINST:** None known
- 1.3 MANUFACTURED BY:** Novagard Solutions, Inc.®
5109 Hamilton Avenue
Cleveland, OH 44114
216-881-8111
- 1.4 COMPANY WEB SITE:** www.novagard.com
- 1.5 EMERGENCY PHONE NUMBER:** CHEMTREC 800-424-9300 (24 hour)
- 1.6 EMAIL ADDRESS:** techsolutions@novagard.net

SECTION 2 – HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE

This product is not hazardous according to OSHA standards

This product is not hazardous according to Regulation (EC) No. 1272/2008

This product is not hazardous according to EU Directives 67/548/EEC or 1999/45/EC

2.2 LABELING ACCORDING TO EEU DIRECTIVES:

No special packaging or labeling requirements necessary

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 ACCORDING TO EU DIRECTIVES 67/548/EEC AND 1999/45/EC

| COMPONENT | CAS No. | WT % | EINECS/ELINCS NUMBER | REACH |
|--------------|---------|------|-------------------------|-------|
| REGISTRATION | | | | |

This product does not contain any hazardous ingredients

Novagard Solutions[®]
SAFETY DATA SHEET

VERSILUBE G687 SILICONE COMPOUND

3.2 ACCORDING TO REGULATION (EC) 1272/2008

| COMPONENT | CAS No. | WT % | EINECS/ELINCS NUMBER | REACH |
|---------------------|----------------|-------------|---------------------------------|--------------|
| REGISTRATION | | | | |

This product does not contain any hazardous ingredients

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

SECTION 4 - FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye: Contact with the eyes may cause temporary irritation. Flush eyes with copious amounts of water for a minimum of 15 minutes. If chronic irritation develops contact a physician.

Skin: Contact with skin is not expected to cause irritation. Wash contacted areas with soap and water.

Oral: If ingested do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA Water, CO₂, Dry Chemical, Foam.

UNSUITABLE MEDIA: None known

5.2 HAZARDS DURING FIRE FIGHTING: None known

HAZARDOUS COMBUSTION PRODUCTS:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

5.3 SPECIAL PROTECTIVE EQUIPMENT/PROCEDURES:

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Novagard Solutions®

SAFETY DATA SHEET

VERSILUBE G687 SILICONE COMPOUND

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear proper protective equipment.

6.2 Environmental precautions:

Do not allow large quantities to enter drains or surface waters.

6.3 Methods and materials for containment and cleaning up:

Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

SECTION 7 - HANDLING AND STORAGE

7.1 Advice on safe handling:

Avoid eye contact. General ventilation is recommended. Do not empty into drains.

7.2 Advice on storage:

Do not store with oxidizing agents.

7.3 Specific uses:

Refer to technical data sheet available on request.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Local exhaust: None needed General ventilation: None needed Eyewash stations: Recommended

8.2 PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

Engineering Controls: Ventilation : Refer to Section 7.1

Personal protection equipment

Respiratory protection: This product cannot normally be inhaled.

Hand protection: Gloves are not normally required.

Eye / face protection: Safety glasses should be worn.

Skin protection: Protective equipment is not normally necessary

Hygiene measures: Exercise good industrial hygiene practice. Wash hands after handling, especially before eating, drinking or smoking.

Novagard Solutions[®]
SAFETY DATA SHEET

VERSILUBE G687 SILICONE COMPOUND

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---------------------------------------|--------------------------------|--|
| Flash Point: | >260 (C) >500 (F) (COC Method) | |
| Flammability Limits in Air | Upper - Not Determined | Lower - Not Determined |
| Physical form | Hazy paste | |
| Odor: | Odorless | |
| Specific Gravity @25°C: | 1.02 | |
| Boiling Point (@ 760 mm Hg) | Not applicable | |
| Freezing/melting point | Not applicable | |
| Vapor pressure: | Not applicable | |
| Evaporation rate: | Not applicable | |
| Volatile content: | Not applicable | |
| Odor threshold | Not applicable | |
| VOC (EPA method 24): | <25 gm/l | Percent Volatile by volume: <0.5% |
| Solubility in water: | < 1.0% | |
| Solubility in organic solvent: | Mineral spirits | |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|--|---|
| Chemical stability: | Stable |
| Hazardous polymerization: | Will not occur |
| Conditions to avoid: | None known |
| Materials to avoid: | None known |
| Conditions to avoid: | None known |
| Hazardous thermal decomposition and combustion by-products: | Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. |

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY

| | |
|-------------------------------|---------------------------------------|
| Acute oral LD 50 (rat) | >15,400 mg/kg (fluid component) |
| Acute dermal LD50 (rabbit) | >2,000 mg/kg (fluid component) |
| Acute inhalation LC 50 (mg/L) | None known |
| On Contact Eye: | May irritate eyes |
| On Contact with Skin: | May cause mild skin irritation |
| On Inhalation: | Not anticipated during industrial use |
| Oral: | Not anticipated during industrial use |

Novagard Solutions[®]
SAFETY DATA SHEET

VERSILUBE G687 SILICONE COMPOUND

11.2 CHRONIC TOXICITY

Carcinogens: This product does not contain any ingredients listed by IARC, NTP or OSHA as chemical carcinogens.
Teratogens: None known
Mutagens: None known
Reproductive Toxins: None known

SECTION 12 - ECOLOGICAL INFORMATION

12.1 ECOTOXICITY EFFECTS

No adverse effects on aquatic organisms

12.2 PERSISTENCE AND DEGRADABILITY

Solid material that is insoluble in water. No adverse effects are predicted.

12.3 BIOACCUMULATION

No bioaccumulation potential

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal method: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14 - TRANSPORTATION INFORMATION

Road / Rail (ADR/RID)

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

Novagard Solutions®

SAFETY DATA SHEET

VERSILUBE G687 SILICONE COMPOUND

SECTION 15 - REGULATORY INFORMATION

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

Status

| | |
|-------------------|---|
| EINECS: | All ingredients listed, exempt or notified (ELINCS). |
| TSCA: | All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. |
| AICS: | All ingredients listed, exempt or notified. |
| IECSC: | All ingredients listed or exempt. |
| ENCS/ISHL: | All ingredients listed, exempt or notified. |
| KECL: | All ingredients listed, exempt or notified. |
| PICCS: | All ingredients listed, exempt or notified. |
| DSL: | All ingredients listed, exempt or notified. |

SECTION 16 - OTHER INFORMATION

REVISED: 01-10-2014

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations. It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Novagard Solutions product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Novagard Solutions Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Novagard Solutions shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge. As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Novagard Solutions supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Novagard Solutions supplier. Source of information: Internal data and publically available information