

SAFETY DATA SHEET



Version: 2.0
Revision Date: 04/03/2017

1. Identification

Product identifier: SCS2803 12R-SILGLAZE II SEALANT-Ctrtg (0.730 Lbs-0.331 Kg) BLACK

CRL Catalog Numbers : SCS2801, SCS2802, SCS2803, SCS2897

Other means of identification

Synonyms : Silicone Rubber Sealant

Recommended use and restriction on use

Recommended use: Silicone Elastomer (A)

Restrictions on use: For industrial use only.

Manufacturer/Importer/Supplier/Distributor Information

Supplier's information : **Hexion Canada Inc.**
12621 156th Street NW
Edmonton AB T5V 1E1
Canada

Manufacturer/Importer/Distributor Information : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person : commercial.services@momentive.com
Telephone : General information
+1-800-295-2392

Emergency telephone number

Supplier : CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

| | |
|-----------------------------------|-------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Skin sensitizer | Category 1 |
| Toxic to reproduction | Category 1B |

Label Elements

Hazard Symbol:



Signal Word:

Danger

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

- Hazard Statement:** H315; Causes skin irritation.
 H317; May cause an allergic skin reaction.
 H319; Causes serious eye irritation.
 H360; May damage fertility or the unborn child.
- Precautionary Statements**
- Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
- Response:** IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash it before reuse. 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 advice/attention. IF exposed or concerned: Get medical advice/attention.
- Storage:** Store locked up.
- Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Unknown toxicity - Health

| | |
|--|-----|
| Acute toxicity, oral | 0 % |
| Acute toxicity, dermal | 0 % |
| Acute toxicity, inhalation, vapor | 0 % |
| Acute toxicity, inhalation, dust or mist | 0 % |

Other hazards which do not result in GHS classification: None.

Substance(s) formed under the conditions of use: Generates methanol during cure.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|---------------------------------|------------|-------------------------|
| Octamethylcyclotetrasiloxane | 556-67-2 | 1.4564% |
| Hexamethyldisilazane | 999-97-3 | 1.4029% |
| DIBUTYL TIN BIS ACETYLACETONATE | 22673-19-4 | 0.2758% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures



Version: 2.0
Revision Date: 04/03/2017

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

- Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water.
- 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.
- Skin Contact:** Wash with soap and water.
- Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Most important symptoms/effects, acute and delayed

- Symptoms:** No data available.
- Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

- Treatment:** Treatment is symptomatic and supportive.

5. Fire-fighting measures

- General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media:** All standard extinguishing agents are suitable.
- Unsuitable extinguishing media:** No data available.
- Specific hazards arising from the chemical:** In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. This material is reactive with water, but the reaction will not significantly increase the fire severity.

Special protective equipment and precautions for firefighters

- Special fire fighting procedures:** No data available.
- Special protective equipment for fire-fighters:** Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK
Personal precautions, protective equipment and emergency procedures:

Keep container closed. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Avoid accidental ingestion of this material. Wash hands and face before eating, drinking, smoking, using toilet facilities, or applying cosmetics.

Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Keep out of reach of children. May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

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.

7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is not expected.

Conditions for safe storage, including any incompatibilities: Keep away from heat, sparks and open flame.

Storage conditions: No data available.

8. Exposure controls/personal protection
Control Parameters
Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|---|------------|-----------------------|---|
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | TWA | 0.1 mg/m ³ | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) |
| | STEL | 0.2 mg/m ³ | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) |
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | STEL | 0.2 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| | TWA | 0.1 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | TWA | 0.1 mg/m ³ | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2015) |
| | STEL | 0.2 mg/m ³ | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2015) |
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | TWA | 0.1 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | 8 HR ACL | 0.1 mg/m ³ | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009) |
| | 15 MIN ACL | 0.2 mg/m ³ | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009) |
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | TWA | 0.1 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011) |
| | STEL | 0.2 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work |

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

| | | | |
|---|------|-----------|--|
| | | | Environment) (11 2011) |
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | STEL | 0.2 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| | TWA | 0.1 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |

Appropriate Engineering Controls

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

Individual protection measures, such as personal protective equipment

General information:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

Eye/face protection:

Monogoggles

Skin Protection

Hand Protection:

Cloth gloves.

Skin protection:

Wear suitable protective clothing and eye/face protection.

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).

Hygiene measures:

No data available.

9. Physical and chemical properties

Appearance

Physical state:

solid

Form:

Paste

Color:

Black

Odor:

Ammonia.

Odor threshold:

No data available.

pH:

not applicable

Melting point/freezing point:

No data available.

Initial boiling point and boiling range:

not applicable

Flash Point:

ca. 110.00 °C (Closed Cup)

Evaporation rate:

< 1

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

No data available.

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure:

< 1.33 hPa

Vapor density:

not applicable

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

| | |
|---|-----------------------------|
| Density: | ca. 1.035 g/cm ³ |
| Relative density: | ca. 1.03 |
| Solubility(ies) | |
| Solubility in water: | No data available. |
| Solubility (other): | Insoluble |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature: | not applicable |
| Decomposition temperature: | No data available. |
| Viscosity, dynamic: | No data available. |
| Viscosity, kinematic: | No data available. |

10. Stability and reactivity

| | |
|--|--|
| Reactivity: | No dangerous reaction if used as recommended. |
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | Hazardous polymerisation does not occur. |
| Conditions to avoid: | Reacts with water liberating small amounts of methanol. |
| Incompatible Materials: | Water. |
| Hazardous Decomposition Products: | Carbon dioxide Silicon dioxide. Formaldehyde. Ammonia. 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 has been classified by the National Toxicology Program as a known human carcinogen. An (M)SDS for formaldehyde is available from Momentive. |

11. Toxicological information

Information on likely routes of exposure

| | |
|----------------------|--------------------|
| Ingestion: | No data available. |
| Inhalation: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|----------------------|--------------------|
| Ingestion: | No data available. |
| Inhalation: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |



Version: 2.0
Revision Date: 04/03/2017

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix: 23,970.88 mg/kg

Dermal
Product: ATEmix: 21,384.28 mg/kg

Inhalation
Product: ATEmix: 784.09 mg/l

Specified substance(s):
Octamethylcyclotetrasiloxane LC50 (Rat): 12.1 mg/l
LC50 (Rat): 36 mg/l

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Serious Eye Damage/Eye Irritation
Product: No data available.

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

ACGIH Carcinogen List:
No carcinogenic components identified

ACGIH Carcinogens:
No carcinogenic components identified

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
 Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects:

Octamethylcyclotetrasiloxane
 Ingestion: Rodents given large doses via oral gavages of Octamethylcyclotetrasiloxane (1600 mg/kg day, 14 days) developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size).
 Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents.
 Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) with Octamethylcyclotetrasiloxane (D4). Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found.

Interim results from a two generation reproductive study in rats exposed

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

to 500 and 700 ppm D4 (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) resulted in a statistically significant decrease in live mean litter size as well as extended periods of off-spring delivery (dystocia). These results were not observed at the 70 and 300ppm dosing levels.

Preliminary results from an ongoing 24-month combined chronic/oncogenicity study in rats exposed to 10, 30, 150, or 700 ppm D4 showed test-article related effects in the kidney (male and female) and uterus of rats exposed for 12 to 24 months. These effects include increased kidney weight and severity of chronic nephropathy, increased uterine weight, increased incidence of endometrial cell hyperplasia, and an increased incidence of endometrial adenomas. All of these effects are limited to the 700 ppm exposure group.

These results have been shown to be rat-specific. Further studies are ongoing.

In developmental toxicity studies, rats and rabbits were exposed to Octamethylcyclotetrasiloxane at concentrations up to 700 ppm and 500 ppm respectively. No teratogenic effects (birth defects) were observed in either study.

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

Other effects of overexposure:

Ammonia released during curing. Additional information on the toxicological effects of this material or it's ingredients can be found in Section 11 - Toxicological Information.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)) Not readily biodegradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12.40

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Octamethylcyclotetrasiloxane No data available.
 Hexamethyldisilazane No data available.
 DIBUTYL TIN BIS ACETYLACETONATE No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

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

Contaminated Packaging: No data available.

14. Transport information

DOT
 Not regulated.
IMDG
 Not regulated.
IATA
 Not regulated.

Version: 2.0
Revision Date: 04/03/2017**SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK****Special precautions for user:**

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

15. Regulatory information**Canada Federal Regulations****List of Toxic Substances (CEPA, Schedule 1)****Chemical Identity**

Octamethylcyclotetrasiloxane

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)**Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**

NPRI PT5 Methanol

Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Parts 1-4)

NPRI Not Regulated

Greenhouse Gases

Not Regulated

Controlled Drugs and Substances Act

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

Precursor Control Regulations

Not Regulated



Version: 2.0
Revision Date: 04/03/2017

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

Inventory Status:

| | | |
|--|----------------------|----------------|
| Australia AICS: | n (Negative listing) | Remarks: None. |
| Canada DSL Inventory List: | y (positive listing) | Remarks: None. |
| EU EINECS List: | y (positive listing) | Remarks: None. |
| Japan (ENCS) List: | n (Negative listing) | Remarks: None. |
| China Inventory of Existing Chemical Substances: | y (positive listing) | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI): | n (Negative listing) | Remarks: None. |
| Canada NDSL Inventory: | n (Negative listing) | Remarks: None. |
| Philippines PICCS: | n (Negative listing) | Remarks: None. |
| US TSCA Inventory: | y (positive listing) | Remarks: None. |
| Taiwan. Taiwan inventory (CSNN): | y (positive listing) | Remarks: None. |

16. Other information, including date of preparation or last revision

| | |
|-----------------------------|--------------------|
| Issue Date: | 04/03/2017 |
| Revision Date: | No data available. |
| Version #: | 2.0 |
| Further Information: | No data available. |

SCS2803 12R-SILGLAZE II SEALANT-Crtrg (0.730 Lbs-0.331 Kg) BLACK

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

®,*, and TM indicate trademarks owned by or licensed to Momentive.