

SCS1000: GE Silicone Sealant



Features:

- Clear silicone construction sealant
- Ideal for waterproofing and sealing
- Extra long nozzle included

Part #	Size
SCS1000	10.1 oz



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SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Waterford Plant
260 Hudson River Rd
Waterford NY 12188

Revised: 01/17/2008

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

CHEMTREC 1-800-424-9300

Chemical Family/Use: Sealant

Formula: Mixture

HMIS

Flammability: 1 Reactivity: 0 Health: 0

NFPA

Flammability: 1 Reactivity: 0 Health: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! May be harmful if swallowed. Irritating to eyes, respiratory system and skin. Adverse liver and reproductive effects reported in animals.

Form: Solid Color: Translucent Odor: Acetic acid

POTENTIAL HEALTH EFFECTS

INGESTION

May be harmful if swallowed.

SKIN

Uncured product contact will irritate lips, gums and tongue. Skin irritation is possible after contact with the uncured product.

INHALATION

Inhalation of vapors may cause irritation of the respiratory tract. Applies in uncured state.

EYES

Eye irritation is possible after contact with the uncured product.

MEDICAL CONDITIONS AGGRAVATED

None known.

SUBCHRONIC (TARGET ORGAN)

Liver; Reproductive hazard.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Dermal

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
A. HAZARDOUS		
METHYLTRIACTOXSILANE	4253-34-3	1 - 5 %
Octamethylcyclotetrasiloxane	556-67-2	1 - 5 %
B. NON-HAZARDOUS		
Dimethylpolysiloxane	70131-67-8	60 - 90 %
Siloxanes & Silicones, Dimethylpolymers w/Methylsilsesquioxanes	68554-67-6	5 - 10 %
Treated Filler	68611-44-9	10 - 30 %

4. FIRST AID MEASURES

INGESTION

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

SKIN

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.

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, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

5. FIRE-FIGHTING MEASURES

FLASH POINT: > 93 °C; 199 °F
METHOD: estimated
FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

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.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Product releases acetic acid during application and curing. Use only in well-ventilated areas. Avoid contact with skin and eyes. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation.

STORAGE

Store away from heat, sources of ignition, and incompatibles. Keep out of the reach of children. Keep container tightly closed.

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Eyewash stations; Showers; Exhaust ventilation

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

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Safety glasses

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS RN	Source	Value
Octamethylcyclotetrasiloxane	556-67-2	Z_INTL_OEL, REL	5 ppm

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

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).

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
ODOR:	Acetic acid
COLOR:	Translucent
VOLATILE ORGANIC CONTENT (VOL):	1.5 %(m)
SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOC EXCL. H2O & EXEMPTS (G/L):	20

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); Carbon monoxide; Acetic acid; Silicon dioxide.; Formaldehyde

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Remarks: Unknown

ACUTE DERMAL

Remarks: Unknown

ACUTE INHALATION

Remarks: NONE FOUND

OTHER

Octamethylcyclotetrasiloxane Ingestion: Rodents given large doses via oral gavage 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 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 300 ppm 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

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

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. The relevance of these data to humans is unclear. 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.

SENSITIZATION

No data available

SKIN IRRITATION

No data available

EYE IRRITATION

No data available

MUTAGENICITY

Unknown

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., Acetic acid released during curing.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No data available

DISTRIBUTION

No data available

CHEMICAL FATE

No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

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

14. TRANSPORT INFORMATION

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

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

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

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

US Regulatory Information

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Chronic Health Hazard

SARA (313) CHEMICALS

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Canadian Regulatory Information

WHMIS HAZARD CLASS

D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

SCS1000: GE Silicone Sealant

SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Construction Sealant

Other

SCHDLE B/HTSUS: 3214.10.00.10 Mastic based on rubber
ECCN: EAR99

16. OTHER INFORMATION

OTHER

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., 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).

SCS1000: GE Silicone Sealant

SCS1000 Contractors

silicone sealant

Product Description

SCS1000 Contractors silicone sealant is a one-component acetoxy silicone material that provides excellent weatherability and elasticity for general purpose sealing and bonding. SCS1000 silicone sealant is a paste material, which cures into a flexible rubber when exposed to atmospheric moisture.

Typical Performance Properties

Performance

- **Silicone Durability** - Cured silicone provides excellent longterm resistance to natural weathering, humidity and high & low temperatures with negligible change in elasticity.
- **±25% Movement Capacity** - Can accommodate 25% movement in both extension and compression and has excellent recovery after cycling.
- **Thermal Stability** - Once properly cured, the material remains fully elastic over a range of -45°F (-48°C) to 350°F (204°C).
- **Low VOC** - significantly lower than the U.S. Green Building Council's Leadership in Energy and Environmental Design (L.E.E.D.) program's requirements.

Application

- **Fast Cure Time** - Tack free in 30 minutes and full cure of many common bead sizes in 24-48 hours.
- **Durable Adhesion** - Able to bond to many common substrates and finishes, including: glass, ceramic tiles, porcelain, painted surfaces, some plastics, cultured marble, polished granites and marbles and many composite materials including fiberglass.
- **Gunnability** - The uncured silicone can be easily gunned and tooled under hot or cold conditions.
- **Workability** - Non-sag paste makes application possible on horizontal, vertical or overhead surfaces.



SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

Basic Uses

SCS1000 sealant is a candidate for use:

- In general purpose sealing & glazing applications.
- As a formed-in-place rubber gasket seal on a variety of materials and for sealing of: sheet metal, skylights, HVAC componentry, glass block, metal/plastic signs, marine hardware.
- For bedding and grouting of bathroom and kitchen tiles.
- As a seal around bathroom fixtures and countertops, air dryers and drains. For increased mold and mildew resistance, consider SCS1700 Sanitary.

Customer Evaluation

Customers must evaluate Momentive Performance Materials (MPM) products and make their own determination as to fitness of use in their particular applications.

Packaging

Contractors SCS1000 sealant is available in 10.1 fl. oz. (299 ml) cartridges with either removable or fixed nozzles. Cases contain 24 cartridges.

Colors

Contractors SCS1000 sealant series is available in 4 standard colors and translucent:

Grade	Color
SCS1001	Translucent
SCS1002	White
SCS1003	Black
SCS1009	Aluminum (metallic)
SCS1097	Bronze

Limitations

SCS1000 sealant is not recommended:

- For use underwater or in when in continuous contact with water.
- When paintability is desired or necessary. Consider SCS7000 Paintable.
- In Structural Silicone Glazing (SSG) Applications.
- On mirrors.
- On wet, damp, frozen or contaminated surfaces.
- On masonry, sawn stone surfaces, lead, copper or brass.

SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

Technical Services

Additional technical information, literature, laboratory testing and application engineering may be available upon request from MPM. Any technical advice furnished by MPM or any representative of MPM concerning any use or application of any MPM product is believed to be reliable but MPM makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

Applicable Standards

SCS1000 sealant meets the requirements of the following specifications: ASTM: C920, U.S. Federal: TT-S-001543A, TT-S-00230C.

USDA: MPM has on file documentation from USDA which states that SCS1001, SCS1002, SCS1003 and SCS1009 sealants are chemically acceptable for use on surfaces in official establishments operating under the Federal Meat and Poultry Inspection Program. SCS1097 (Bronze) does not meet USDA acceptance criteria. For further information, contact MPM Product Regulatory Compliance. The final granting of authorization for the proposed use of such compounds is the responsibility of the inspector in charge of the official plant. Technical assistance will be provided by the Product Safety Branch of USDA upon request.

FDA: The following SCS1000 sealants/colors are compositionally in compliance with 21 CFR 177.2600, "Rubber articles intended for repeated use", 21 CFR 175.105 "Adhesives" and 21 CFR 175.300 "Resinous and Polymeric Coatings": SCS1001, SCS1002, SCS1003, SCS1009 and SCS1097. The use of these adhesive sealants is subject to the following conditions:

- The adhesive sealant is applied in accordance with Good Manufacturing Practice at a thickness not to exceed 6mm (1/4 inch) from an exposed edge.
- As a continuous film between joints acting as a functional barrier between the food and the substrate (area underneath the joint).
- The adhesive sealant must be cured for a minimum of 14 days at or above 23°C (73°F) and 50% Relative Humidity.
- The operating temperature of the adhesive sealant after cure must not exceed 177°C (350°F). The above sealants mentioned should be evaluated to determine bond strength for each specific substrate and application. If enhanced adhesion is desired, the evaluation of a primer is recommended. Only SS4179 primer may be used in repeated contact with food under 21 CFR 175.300. "Resinous and Polymeric Coatings" may be used.

NSF: SCS1001, SCS1002, SCS1003 and SCS1009 sealants are listed under NSF/ANSI STANDARD 51 "Food Equipment Materials".

SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

Specifications

Typical property values of SCS1000 silicone sealant as supplied and cured are set forth in the table below. Typical product data values should not be used as specifications.

Typical Properties – Supplied

Property	Value ⁽¹⁾	Test Method
Consistency	Paste	N/A
Polymer	100% silicone	N/A
VOC	20 g/l	WPSTM C1454
Work Life (tooling time)	5-10 minutes	N/A
Tack Free Time (@ 73°F (23°C), 50% RH)	15-30 minutes	ASTM C679

Typical Properties – Cured

(after cure of 21 days at 73°F (23°C) & 50% Relative Humidity)

Property	Value ⁽¹⁾	Test Method
Ultimate Tensile Strength	300 psi (2.1 MPa)	ASTM D412
Ultimate Elongation	433%	ASTM D412
Cure Time (1/4" or 6 mm deep section) @ 73°F (23°C) 50% RH	24 hours	N/A
Hardness, Durometer (Type A Indentor)	27	ASTM D2240
Service Temperature Range (after cure)	-55°F to +350°F (-48°C to 177°C)	N/A

(1) Average value. Actual value may vary.

SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

Installation

In all cases it is important to confirm the acceptability of each sealant-substrate combination with an adhesion test prior to proceeding with use. Some materials with variable surface characteristics may require the use of a primer to help obtain durable long-term adhesion. See Construction Primers datasheet.

Surface Preparation

- Surfaces must be clean, dry and sound prior to application of the sealant. All contaminants, impurities, or other adhesion inhibitors (such as moisture/frost, oils, old sealants, soaps and other surface treatments, etc.) must be removed from the surfaces to which the sealant is intended to adhere.
- For cleaning, a solvent-dampened clean rag usually produces the desired result. Isopropyl Alcohol (IPA) is a commonly-used solvent and has proven useful for most substrates. When handling solvents, refer to manufacturer's MSDS for information on handling, safety and personal protective equipment.

Masking

The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces from over-application of sealant. Masking tape should be removed immediately after tooling the sealant and before the sealant begins to skin over (tooling time).

Sealant Application

- Apply sealant in a continuous operation applying a positive pressure adequate to properly fill and seal the seam, cavity or joint.
- Tool or strike the sealant with an appropriate tool applying light pressure to spread the material against the joint surfaces for a neat application.
- Sealant application is not recommended when the temperature is below 40°F (4°C) or if frost or moisture is present on the surfaces to be sealed.
- Application of SCS1000 sealant is not recommended to surfaces above 120°F (49°C).

Method of Application

SCS1000 sealant is easily dispensed directly from cartridges using standard caulking guns or air operated guns. Maximum recommended pressure for air operated guns is 45 psi (0.02 bar). Mixing, heating and refrigeration are not required.

SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

Sealant Application

- Begin by installing backup material for joint or joint filler, setting blocks, spacer shims and tapes as needed.
- In a continuous operation, apply the sealant horizontally in one direction and vertically from the bottom to the top of the joint opening.
- Apply the sealant with a positive pressure by pushing the bead ahead of the nozzle and making sure that the entire cavity is filled sans air pockets or voids.
- Tooling should be done neatly, forcing the sealant into contact with the sides of the joint or cavity, thus helping to eliminate any internal voids and assuring good substrate contact.
- Sealant should only be applied to surfaces that are clean, dry and free of dust.

Tooling

- Tool or strike the sealant with a concave tool applying light pressure to spread the material against the back-up material and the joint surfaces to ensure a void-free application.
- On sill applications, tool the sealant to shed water and to eliminate ponding.
- Tooling agents such as water, soap, or detergent solutions are not recommended.

Cleaning of Excess Sealant

- For glass, metal, and plastic surfaces, uncured excess material can be removed using a solvent. Use care when using solvents on plastic materials as some solvents can soften some plastics.
- For glass, metal, and plastic surfaces, cured excess material can be removed using a blade by scraping or cutting.
- If excess material unintentionally contacts the surfaces of porous materials, the sealant is best allowed to progress through the initial cure or set-up and then mechanically removed by abrasion or other suitable means.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.ge.com/silicones or, upon request, from any MPM representative. Use of other materials in conjunction with GE sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.



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SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products.

<u>Location</u>	<u>Emergency Service Provider</u>	<u>Emergency Contact Number</u>
Mainland U.S., Puerto Rico	CHEMTREC	1-800-424-9300
Alaska, Hawaii	CHEMTREC	1-800-424-9300
Canada	CHEMTREC	1-800-424-9300
Europe, Israel	NCEC	+44 (0) 1235239670
Middle East	NCEC	+44 (0) 1235239671
Asia Pacific (except China)	NCEC	+44 (0) 1235239670
China	NCEC	+86-10-5100-3039
Latin America (except Brazil)	NCEC	+44 (0) 1235239670
Brazil	SOS Cotec	08000111767 or 08007071767
All other locations world wide	NCEC	+44 (0) 1235239670
At sea	Radio U.S. Coast Guard in U.S. waters NCEC in International waters	+44 (0) 1235239670

For Health related calls, contact Momentive Performance Materials at +1-518-233-2500 (English only).

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.



SCS1000: GE Silicone Sealant

SCS1000 Contractors silicone sealant

CUSTOMER SERVICE CENTERS

North America	E cs-na.silicones@momentive.com		
	• Specialty Fluids	T +1.800.523.5862	F +1.304.746.1654
	• UA, Silanes and Specialty Coatings	T +1.800.334.4674	F +1.304.746.1623
	• RTVs and Elastomers	T +1.800.332.3390	F +1.304.746.1623
	• Consumer Sealants & Construction Sealants and Adhesives	T +1.877.943.7325	F +1.304.746.1654
Latin America	E cs-la.silicones@momentive.com		
	• Argentina & Chile	T +54.11.4862.9544	F +54.11.4862.9544
	• Brazil	T +55.11.4534.9650	F +55.11.4534.9660
	• Mexico & Central America	T +52.55.2169.7670	F +52.55.2169.7699
	• Venezuela, Ecuador, Peru Colombia & Caribbean	T +58.212.285.2149	F +58.212.285.2149
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Visit us at www.ge.com/silicones			

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