

Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer	Name:	Momentive per 260 Hudson R Waterford NY	iver Rd	nce material		
Revised: Prepared by CHEMTREC MSDS Contac Information	t	07/16/2012 Product Regulatory Compliance 1-800-424-9300 1-888-443-9466 4information@momentive.com				
Chemical Family/Use:		Sealant				
Formula:		Mixture				
HMIS Health:	1	Flammability:	1	Reactivity:	0	
NFPA Health:	1	Flammability:	1	Reactivity:	0	

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Irritating to eyes, respiratory system and skin. Adverse liver and reproductive effects reported in animals.

Form: Paste

Form: Colorless

Odor: amine like

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.

INHALATION

Applies in uncured state.

EYES

Eye irritation on contact with the uncured product.

MEDICAL CONDITIONS AGGRAVATED

None known.

Page 1/9



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

SUBCHRONIC (TARGET ORGAN)

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 suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Dermal; Eye

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS-No.	<u>WGT. %</u>	
A. HAZARDOUS			
Octamethylcyclotetrasiloxane	556-67-2	1 - 5 %	
Methyltrimethoxysilane	1185-55-3	1 - 5 %	
Hexamethyldisilazane	999-97-3	1 - 5 %	
B. NON-HAZARDOUS Methoxypolydimethylsiloxane	68037-58-1	60 - 100 %	
Treated Filler	68611-44-9	0 - 30 %	
Polydimethylsiloxane	63148-62-9	10 - 30 %	
Treated Fumed Silica	68583-49-3	0 - 30 %	
Siloxanes & Silicones, Dimethylpolymers w/Methylsilsesquioxanes	68554-67-6	1 - 5 %	

4. FIRST AID MEASURES

INGESTION

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



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

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.

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: IGNITION TEMPERATURE: FLAMMABLE LIMITS LEL: FLAMMABLE LIMITS UEL: Not applicable No data available. Not applicable Not applicable

No

SENSITIVITY TO MECHANICAL IMPACT:

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.



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep out of reach of children. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS/PERSONAL 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).

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

Component	CAS-No.	Source	Value
Octamethylcyclotetras iloxane	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; 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).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (°C): VAPOR PRESSURE (20 C) (MM HG): Not applicable Not applicable

Page 4/9



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

FREEZING POINT: PHYSICAL STATE: ODOR: Color: SPECIFIC GRAVITY: DENSITY: ACID / ALKALINITY (MEQ/G): pH: SOLUBILITY IN WATER (20 C): SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): VOC EXCL. H20 & EXEMPTS (G/L): Not applicable Paste amine like Colorless 1.02 1.027 g/cm3 Not applicable Not applicable Insoluble Soluble in toluene

33 g/l

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION.

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide; Formaldehyde.; Ammonia.; Silicon dioxide.

INCOMPATIBLE MATERIALS

None known.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Species: Rat; > 2,000 mg/kg;

ACUTE DERMAL

LD50; Species: Rabbit; > 10,000 mg/kg;

Remarks: No data available.

ACUTE INHALATION

LC50; Species: Rat; 36 mg/l;



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

OTHER

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 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, or700 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.

GENETIC TOXICITY IN VIVO

Test type: Dominant lethal assay; Rat; Result: negative

SENSITIZATION

No data available.



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

SKIN IRRITATION.

Species: Rabbit

EYE IRRITATION

Species: Rabbit ; Result: Slightly irritating.

MUTAGENICITY

Negative in the Ames test.

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.

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

,Ammonia released during curing.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No data available.

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

Page 7/9

MOMENTIVE

MATERIAL SAFETY DATA SHEET

Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

Inventories

Australia Inventory of Chemical Substances (AICS)	n (Negative listing)			
Japan Inventory of Existing & New	n (Negative listing)			
Chemical Substances (ENCS)				
China Inventory of Existing	n (Negative listing)			
Chemical Substances				
Korea Existing Chemicals	n (Negative listing)			
Inventory (KECI)				
Canada DSL Inventory	y (positive listing)			
Canada NDSL Inventory	n (Negative listing)			
Philippines Inventory of Chemicals	n (Negative listing)			
and Chemical Substances				
(PICCS)				
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

CERCLA PRODUCT COMPOSITION

Chemical

CERCLA Reportable Quantity

CALIFORNIA PROPOSITION 65

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

108-88-3, Toluene.

Canadian Regulatory Information

WHMIS CLASSIFICATION

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

16. OTHER INFORMATION

OTHER

NEGL = negligible C = ceiling limitEST = estimated NF = none found NA = not applicableUNKN = unknown NE = none established REC = recommended ND = none determined V = recommended by vendor TS = trade secret SKN = skin R = recommended MST = mistSTEL = short term exposure limit NT = not tested



Version: 1.6 07/16/2012

GE5100 (or GE57) Silicone Rubber Sealant

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.