

SAFETY DATA SHEET

1. Identification

Product identifier: GE612

Other means of identification Silicone Rubber Sealant Synonyms: Recommended use and restriction on use Recommended use: Silicone Elastomer Restrictions on use: For industrial use only. Manufacturer/Importer/Distr : Momentive Performance Materials - Daytona ibutor Information 703 South Street New Smyrna Beach FL 32168 **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 1
Toxic to reproduction	Category 2

Unknown toxicity - Health

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

Label Elements

Hazard Symbol:



MOMENTIVE

inventing possibilities

Signal Word:	Danger
Hazard Statement:	H315; Causes skin irritation. H318; Causes serious eye damage. H361; Suspected of damaging fertility or the unborn child.
Precautionary Statements	
Prevention:	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Take off contaminated clothing.
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.
Other hazards which do not result in GHS classification:	None.
Substance(s) formed under the conditions of use:	Generates acetic acid during cure.

3. Composition/information on ingredients



Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
Distillates, petroleum, hydrotreated middle	64742-46-7	10 - <20%	# This substance has workplace exposure limit(s).
Methyltriacetoxysilane	4253-34-3	3 - <5%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%	No data available.

4. First-aid measures	
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:	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.
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Most important symptoms/effe	ects, acute and delayed
Symptoms:	No data available.
Hazards:	No data available.
Indication of immediate medic	al 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.
Suitable (and unsuitable) extir	nguishing media
Suitable extinguishing media:	Extinguish with foam, carbon dioxide or dry powder.
202	3/1



Version: 2.0 Revision Date: 10/16/2017

GE612

Unsuitable extinguishing media:	water jet
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. Pay attention to the corrosive effects arising from contact with water. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	Use water spray to keep fire-exposed containers cool.
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	S
Personal precautions, protective equipment and emergency procedures:	Keep container closed. Avoid contact with eyes, skin, and clothing. 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. Product releases acetic acid during application and curing.
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. Acetic acid is formed during processing. Wear appropriate personal protective equipment. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Keep containers tightly closed. See

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

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Distillates, petroleum, hydrotreated middle - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2015)

Section 8 of the SDS for Personal Protective Equipment.

Distillates, petroleum,	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical
hydrotreated middle - Mist.				Hazards (2010)
	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards (2010)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)
	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
				(1989)
Distillates, petroleum,	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical
hydrotreated middle				Hazards (2010)
	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (03 2016)
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
				(1989)
Octamethylcyclotetrasiloxane	TWA	5 ppm		

Appropriate Engineering Controls

Eye wash facilities and emergency shower must be available when handling this product. Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information:	General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Wear suitable gloves and eye/face protection.
Eye/face protection:	Safety glasses with side shields Wear face shield if there is risk of splashes.
Skin Protection Hand Protection:	Chemical resistant gloves
Other:	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:	Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation, especially in confined areas. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Paste
Color:	Colorless
Odor:	Acetic acid.
Odor threshold:	No data available.

pH: Melting point/freezing point: Initial boiling point and boiling range: Flash Point:	not applicable not applicable not applicable > 93.3 °C (estimated)
Evaporation rate:	< 1 No data available.
Flammability (solid, gas): Upper/lower limit on flammability or explosiv	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Heat of combustion:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	ca. 1.050 g/cm3
Relative density:	ca. 1.05
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	Soluble in toluene
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	> 7 mm2/s (40 °C)
VOC:	36 g/l ;

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:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon dioxide Silicon dioxide. Acetic acid. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
SDS_US	6/14



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 physica Ingestion:	II, chemical and toxicological characteristics No data available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Information on toxicological effects		
Acute toxicity (list all possible	routes of exposure)	
Oral Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Methyltriacetoxysilane	LD 50 (Rat, female): 1,830 mg/kg LD 50 (Rat): 1,550 mg/kg	
Octamethylcyclotetrasilox ane	LD 50 (Rat): 4,800 mg/kg	
Dermal Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Octamethylcyclotetrasilox ane	LD 50 (Rat): > 2,400 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Octamethylcyclotetrasilox ane	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:	on No data available.
Respiratory or Skin Sensitization Product:	n No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:	
No carcinogenic components	s identified
US. National Toxicology Pl No carcinogenic component	rogram (NTP) Report on Carcinogens: s identified
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified	
Germ Cell Mutagenicity	
In vitro Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)
In vivo Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	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.



Version: 2.0 Revision Date: 10/16/2017

GE612

Aspiration Hazard Product:	No data available.	
Other effects:	Acetic acid released during curing. No data available.	
Specified substance(s): Octamethylcyclotetra oxane	doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/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. This response in rats, which does not affect the animal's health, is well- documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. 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), with 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. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest levela level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year	

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: SDS_US

No data available.

9/14



Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	3.7 % (29 d, 310 Ready Biodegradability - CO_2 in Sealed Vessels (Headspace Test)) Not readily biodegradable.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead Minnow, Bioconcentration Factor (BCF): 12.40
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in soil:	No data available.
Known or predicted distribut Distillates, petroleum, hydrotreated middle	tion to environmental compartments No data available.
Methyltriacetoxysilane Octamethylcyclotetrasiloxa ne	No data available. No data available.



Version: 2.0 Revision Date: 10/16/2017

GE612

Other adverse effects:	No data available.
13. Disposal considerations	
General information:	The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of as unused product.
14. Transport information	
DOT Not regulated.	
IMDG	

Not regulated.

ΙΑΤΑ

Not regulated.

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

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Distillates, petroleum,
hydrotreated middle10000 lbsSILANE,
DICHLORODIMETHYL-,
REAKTION PRODUCTS10000 lbsWITH SILICA, Silane,
dichlorodimethyl-, reaction
products with silica10000 lbsMethyltriacetoxysilane
Octamethylcyclotetrasiloxa10000 lbsne10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

10,10'-OXYBISPHENOXARSINE

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Siloxanes and Silicones, di-Me hydroxy terminated Distillates, petroleum, hydrotreated middle SILANE, DICHLORODIMETHYL-, REAKTION PRODUCTS WITH SILICA, Silane, dichlorodimethyl-, reaction products with silica Methyltriacetoxysilane METHYLDIACETOXYISOPROPOXYSILANE Acetic acid Octamethylcyclotetrasiloxane

US. Massachusetts RTK - Substance List

Chemical Identity

Distillates, petroleum, hydrotreated middle 10,10'-OXYBISPHENOXARSINE



US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Distillates, petroleum, hydrotreated middle

US. Rhode Island RTK

Chemical Identity

Distillates, petroleum, hydrotreated middle

Inventory Status:

y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
q (quantity restricted)	Remarks: None.
n (Negative listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: On TSCA Inventory
On or in compliance with the	Remarks: None.
inventory	
	 y (positive listing) y (positive listing) y (positive listing) y (positive listing) q (quantity restricted) n (Negative listing) y (positive listing) y (positive listing) y (positive listing) On or in compliance with the

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

HMIS Hazard ID

Health	*	3
Flammability		1
Physical Hazards		1
PERSONAL PROTECTI	ON	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date:	10/16/2017
Revision Date:	No data available.
Version #:	2.0
Further Information:	No data available.



Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

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.