

# SAFETY DATA SHEET

1. Identification		
Product identifier: ELEMAX 50	000	
Other means of identification Synonyms:		cone Rubber Sealant
Recommended use and restri Recommended use: Sealan Restrictions on use: For inc	t	
Manufacturer/Importer/Distr ibutor 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**

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:

SDS\_US



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Signal Word:	Warning
Hazard Statement:	H361; Suspected of damaging 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. Use personal protective equipment as required.
Response:	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.
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 (%)*	Notes
(1) CALCIUM CARBONATE	1317-65-3	20 - <50%	# This substance has workplace exposure limit(s).
(1) Carbon Black	1333-86-4	0.1 - <1%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%	# This substance has workplace exposure limit(s).

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



(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

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/effec	ts, 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) exting	uishing media
Suitable extinguishing media:	All standard extinguishing agents are suitable.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
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. Reacts with water liberating small amounts of methanol. 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:	Move container from fire area if it can be done without risk.	

**Special protective equipment for fire-fighters:** Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective clothing.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Keep container closed. Avoid contact with skin and eyes. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Product releases methanol during application and curing. 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. 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. Methanol is formed during processing. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep away from heat, sparks and open flame. Keep container tightly closed.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
(1) CALCIUM CARBONATE - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) CALCIUM CARBONATE - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) CALCIUM CARBONATE - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) CALCIUM CARBONATE - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) CALCIUM CARBONATE - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) CALCIUM CARBONATE - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)

(1) CALCIUM CARBONATE - Total dust.	TWA	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) CALCIUM CARBONATE -	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure
Respirable fraction.		÷	Limits, Table Z1A, as amended (06 2008)
(1) Carbon Black - Inhalable	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as
fraction.		6 mg/m6	amended (03 2015)
(1) Carbon Black	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical
		6.1 mg/me	Hazards, as amended (2010)
	REL	3.5 mg/m3	US. NIOSH: Pocket Guide to Chemical
		0.0 mg/me	Hazards, as amended (2010)
	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air
		0.0 mg/mo	Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
	TWA	3.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),
	1004	5.5 mg/m5	as amended (1989)
(1) Carbon Black - Inhalable	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as
fraction.	IVVA	3 mg/m3	amended (03 2015)
(1) Carbon Black	REL	3.5 mg/m3	US. NIOSH: Pocket Guide to Chemical
(1) Carbon Black	REL	3.5 mg/m3	
(1) Carbon Black - as PAHs	REL	0.4 m m/m 2	Hazards, as amended (2010) US. NIOSH: Pocket Guide to Chemical
(1) Carbon Black - as PAHs	REL	0.1 mg/m3	
	551		Hazards, as amended (2016)
(1) Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
	TWA	3.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),
			as amended (1989)
	TWA	3.5 mg/m3	US. Tennessee. OELs. Occupational Exposure
			Limits, Table Z1A, as amended (06 2008)
(1) Carbon Black -	AN ESL	3.5 µg/m3	US. Texas. Effects Screening Levels (Texas
Particulate.			Commission on Environmental Quality), as
			amended (11 2016)
	ST ESL	35 µg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality), as
			amended (11 2016)
(1) Carbon Black	TWA PEL	3.5 mg/m3	US. California Code of Regulations, Title 8,
			Section 5155. Airborne Contaminants, as
			amended (01 2015)
	IDLH	1,750 mg/m3	US. NIOSH. Immediately Dangerous to Life or
		C C	Health (IDLH) Values, as amended (10 2017)
Octamethylcyclotetrasiloxane	TWA	5 ppm	
Octamethylcyclotetrasiloxane	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas
- Vapor.		× 10 -	Commission on Environmental Quality), as
			amended (11 2016)
	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality), as
			amended (11 2016)
Octamethylcyclotetrasiloxane	TWA	10 ppm	US. OARS. WEELs Workplace Environmental
		- 11	Exposure Level Guide, as amended (2014)

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

#### Appropriate Engineering Controls

Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

#### Individual protection measures, such as personal protective equipment

General information:	Wear suitable gloves and eye/face protection.		
Eye/face protection:	Safety glasses with side shields		
Skin Protection Hand Protection:	Rubber gloves are recommended.		
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:	Provide adequate ventilation. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.		

## 9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	Paste
Color:	Black
Odor:	Sweet
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash Point:	134 °C (Cleveland Open Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosition	ve 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.
Heat of combustion:	No data available.
Vapor pressure:	Negligible
Vapor density:	No data available.
Density: SDS_US	ca. 1.400 g/cm3

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Version: 4.0 Revision Date: 10/31/2019

### ELEMAX 5000

Relative density:	1.40
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	Toluene
Partition coefficient (n-octanol/water) Log	No data available.
Pow:	
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	20 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 polymerization does not occur. Avoid exposure to: Water	
Conditions to avoid:	Reacts with water liberating small amounts of methanol.	
Incompatible Materials:	None known.	
Hazardous Decomposition Products:	Carbon dioxide Silicon dioxide. Formaldehyde. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.	

## 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.	
Information on toxicological effe	cts	
Acute toxicity (list all possible	routes of exposure)	
Oral Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): 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): > 2,375 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 Irritati Product:	on No data available.	
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.	
Carcinogenicity Product:	No data available.	



#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

(1) Carbon Black

**US. National Toxicology Program (NTP) Report on Carcinogens:** No carcinogenic components 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 Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.



finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.	Other effects:Methanol is formed during processing. Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large 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 nezymes that metabolize and eliminate a material from the body. The increased liver weights reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive 
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# 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

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#### ELEMAX 5000

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	
<b>Bioconcentration Factor (BC</b>	
	F) No data available.
<b>Bioconcentration Factor (BC</b>	
Bioconcentration Factor (BC Product: Specified substance(s): Octamethylcyclotetrasilox	No data available. Fathead Minnow, Bioconcentration Factor (BCF): 12.40
Bioconcentration Factor (BC Product: Specified substance(s): Octamethylcyclotetrasilox ane Partition Coefficient n-octan	No data available. Fathead Minnow, Bioconcentration Factor (BCF): 12.40
Bioconcentration Factor (BC Product: Specified substance(s): Octamethylcyclotetrasilox ane Partition Coefficient n-octan Product: Mobility in soil:	No data available. Fathead Minnow, Bioconcentration Factor (BCF): 12.40 ol / water (log Kow) No data available.
Bioconcentration Factor (BC Product: Specified substance(s): Octamethylcyclotetrasilox ane Partition Coefficient n-octan Product: Mobility in soil: Known or predicted distribut (1) CALCIUM	No data available. Fathead Minnow, Bioconcentration Factor (BCF): 12.40 ol / water (log Kow) No data available. No data available.

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#### ELEMAX 5000

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.

#### 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

Reproductive toxicity

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

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#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
(1) CALCIUM	10000 lbs
CARBONATE	
(1) Carbon Black	10000 lbs
Octamethylcyclotetrasiloxa	10000 lbs
ne	

#### 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

No ingredient requiring a warning under CA Prop 65.

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

#### Chemical Identity

(1) CALCIUM CARBONATE dimethylpolysiloxane SILOXANES AND SILICONES, DI-ME Dimethylpolysiloxane Silica (1) Carbon Black Octamethylcyclotetrasiloxane

#### US. Massachusetts RTK - Substance List

Chemical Identity (1) QUARTZ

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

(1) CALCIUM CARBONATE

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.



#### **Inventory Status:**

y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
n (Negative listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
n (Negative listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: None.
y (positive listing)	Remarks: On TSCA Inventory
y (positive listing)	Remarks: None.
	y (positive listing) n (Negative listing) y (positive listing) y (positive listing) y (positive listing) n (Negative listing) y (positive listing) y (positive listing) y (positive listing) y (positive listing)

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

#### **HMIS Hazard ID**

Health	*	0	
Flammability		1	
Physical Hazards		1	
PERSONAL PROTECTIC	)N		

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

Issue Date:	10/31/2019
Revision Date:	No data available.
Version #:	4.0
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 ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, 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.

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