

Revision Date: 03/02/2017

ELEMAX 2600 5GP

SAFETY DATA SHEET

1. Identification

Product identifier: ELEMAX 2600 5GP

Other means of identification

Synonyms: Coating - Black

Recommended use and restriction on use

Recommended use: Protection of construction materials

Restrictions on use: Not known.

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

Physical Hazards

Flammable liquids Category 4

Health Hazards

Toxic to reproduction Category 2

Label Elements

Hazard Symbol:

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Signal Word: warning

Hazard Statement: Combustible liquid.

Suspected of damaging fertility.

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. Wear protective gloves. Wear eye protection/face protection. Keep away from open flames/hot surfaces. - No smoking.

Response: IF exposed or concerned: Get medical advice/attention.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

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.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
(1) Calcium Carbonate	471-34-1	20 - <50%	# This substance has workplace exposure limit(s).
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl) -, reaction products with ammonia, octamethylcyclotetrasiloxane and silica	68937-51-9	1 - <5%	No data available.
Octadecanoic acid	57-11-4	1 - <5%	# This substance has workplace exposure limit(s).
Carbon Black	1333-86-4	1 - <5%	# This substance has workplace exposure limit(s).
(1) CALCIUM CARBONATE	1317-65-3	0.1 - <1%	# This substance has workplace exposure limit(s).
(1) QUARTZ	14808-60-7	0.1 - <1%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%	No data available.

^{*} 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: Wash contaminated clothing before reuse. In case of contact, immediately

flush skin with plenty of soap and water for at least 15 minutes. Get medical

attention.

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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: Treatment is symptomatic and supportive.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Fire residues and contaminated fire extinguishing water must be disposed

of in accordance with local regulations. Use standard firefighting procedures and consider the hazards of other involved materials.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

No data available.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

When using do not smoke. Do not empty into drains.

Special protective equipment

for fire-fighters:

CombustibleThis product or a component thereof can flow along surfacesto reach a distant ignition source and flash back. Firefighters must wear

NIOSH/MSHA approved positive pressure self-contained breathing

apparatus with full face mask and full protective clothing.

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures: Product releases methanol during application and curing. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Avoid inhalation of vapors and spray mists. Keep container closed. Keep out of reach of children. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal. Warn other workers of spill. Keep unauthorized personnel away.

7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is expected; material has a flash point below

200 F.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Recommended storage in original container below 30'C (85'F).

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
(1) Calcium Carbonate - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
(1) Calcium Carbonate - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
(1) Calcium Carbonate - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
(1) Calcium Carbonate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
(1) Calcium Carbonate - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
(1) Calcium Carbonate - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Octadecanoic acid	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
Carbon Black	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	3.5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	3.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
(1) CALCIUM CARBONATE - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
(1) CALCIUM CARBONATE - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

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		1	
(1) CALCIUM CARBONATE -	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
Total dust.			Contaminants (29 CFR 1910.1000) (02 2006)
(1) CALCIUM CARBONATE -	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
Respirable fraction.			Contaminants (29 CFR 1910.1000) (02 2006)
(1) CALCIUM CARBONATE -	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
Total dust.		_	(1989)
(1) CALCIUM CARBONATE -	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
Respirable fraction.			(1989)
(1) QUARTZ - Respirable	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
fraction.			
(1) QUARTZ - Respirable	REL	0.05 mg/m3	US. NIOSH: Pocket Guide to Chemical
dust.			Hazards (2010)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
		, and the second	(1989)
(1) QUARTZ - Respirable.	TWA	2.4 millions	US. OSHA Table Z-3 (29 CFR 1910.1000)
		of particles	(2000)
		per cubic foot	, ,
		of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000)
			(2000)
(1) QUARTZ - Total dust.	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000)
			(2000)

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

Eye wash facilities and emergency shower must be available when

Controls 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: Chemical resistant gloves

Other: Wear rubber apron. Wear suitable protective clothing and eye/face

protection.

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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: liquid
Form: liquid
Color: Black

Odor:

Odor threshold:

PH:

No data available.

Flash Point: 70 °C

Evaporation rate:No data available.
Flammability (solid, gas):
No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: No data available.

Vapor density:No data available.Density:No data available.

Relative density: 1.3

Solubility(ies)

Solubility in water:

Solubility (other):

Partition coefficient (n-octanol/water) Log

No data available.

No data available.

No data available.

Pow:

Auto-ignition temperature: No data available.

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Decomposition temperature:No data available.SADT:No data available.Viscosity, dynamic:No data available.Viscosity, kinematic:No data available.

VOC: 24 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: Keep away from heat. Keep away from sources of ignition - No smoking.

Incompatible Materials: None known.

Hazardous Decomposition

Products:

Carbon oxides Oxides of silicon. 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.

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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

Specified substance(s):

Octadecanoic acid LD 50 (Rat, No data available.): > 2,000 mg/kg

Octamethylcyclotetrasilox LD 50 (Rat): 4,800 mg/kg ane LD 50 (Mouse): 1,700 mg/kg

Dermal

Product: LD 50 (Rat, male and female): 2,400 mg/kg [Octamethylcyclotetrasiloxane]

Specified substance(s):

Octamethylcyclotetrasilox LD 50 (Rat): 2,400 mg/kg

ane

Inhalation

Product: LC50 (Rat): 36 mg/l [Octamethylcyclotetrasiloxane]

LC50 (Rat): 12.1 mg/l [Octamethylcyclotetrasiloxane]

Specified substance(s):

Octamethylcyclotetrasilox ane LC50 (Rat): 12.1 mg/l LC50 (Rat): 36 mg/l

Repeated dose toxicity

Product: NOAEL (Rat(male and female), Inhalation(vapour)): 150 mg/kg

NOAEL (Rabbit(male and female), Dermal): > 1 mg/kg

Skin Corrosion/Irritation

Product: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin

irritation

Serious Eye Damage/Eye Irritation

Product: OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): No eye

irritation

Respiratory or Skin Sensitization

Product: , OECD-Guideline 406 (Skin Sensitisation)negative

Carcinogenicity

Product: No data available.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

(1) QUARTZ Overall evaluation: 1. Carcinogenic to humans.

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

(1) QUARTZ Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: 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: Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology:

Micronucleus Test)): 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.

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Other effects:

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 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, 70 days prior to mating, through mating, gestation and lactation), 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 level--a 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 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.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Octadecanoic acid LC0 (Brachydanio rerio, 96 h): > 100 mg/l

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LC0 (Leuciscus idus, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: EC50 (Daphnia magna, 48 h): > 0.015 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: LC50 (Oncorhynchus mykiss, 14 d): 0.01 mg/l

Aquatic Invertebrates

Product: EC50 (Daphnia magna, 21 d): > 0.015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: 3.7 % (29 d, OECD Test Guideline 310)

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Pimephales promelas, Bioconcentration Factor (BCF): 12.40 May

accumulate in soil and water systems.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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(1) Calcium Carbonate Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl) -, reaction products with ammonia,

No data available. No data available.

octamethylcyclotetrasiloxan e and silica

Octadecanoic acid No data available. Carbon Black No data available. (1) CALCIUM No data available.

CARBONATE

No data available. (1) QUARTZ Octamethylcyclotetrasiloxa No data available.

Other adverse effects: No data available.

13. Disposal considerations

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

UN Number: NA 1993

UN Proper Shipping Name: Combustible liquid, n.o.s.(METHYLTRIMETHOXYSILANE,

Titanium, Bis(ethyl acetoacetato)-diispropoxy)

Transport Hazard Class(es)

CBL Class: Label(s): NONE Packing Group: Ш Marine Pollutant: No

IMDG

Not regulated.

IATA

Not regulated.

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.

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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

Acute Health Hazard Chronic Health Hazard Fire Hazard 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
(1) Calcium Carbonate	10000 lbs
Silanamine, 1,1,1-	10000 lbs
trimethyl-N-(trimethylsilyl) -	
, reaction products with	
ammonia,	
octamethylcyclotetrasiloxa	
ne and silica	
Octadecanoic acid	10000 lbs
Carbon Black	10000 lbs
(1) CALCIUM	10000 lbs
CARBONATE	
(1) QUARTZ	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

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

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Carbon Black Carcinogenic. (1) QUARTZ Carcinogenic.

Methanol Maximum Allowable Dose Level

(MADL): 47000 µg/day. Developmental toxin.

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

Chemical Identity

Siloxanes and Silicones, di-Me hydroxy terminated

(1) Calcium Carbonate

Decamethylcyclopentasiloxane

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl) -, reaction products with

ammonia, octamethylcyclotetrasiloxane and silica

Methyltrimethoxysilane

Octamethylcyclotetrasiloxane

Carbon Black

US. Massachusetts RTK - Substance List

Chemical Identity

(1) QUARTZ

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

(1) Calcium Carbonate Carbon Black

US. Rhode Island RTK

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

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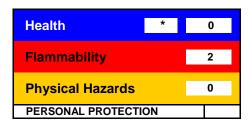
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Inventory Status:

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing	y (positive listing)	Remarks: None.
Chemical Substances:		
Korea Existing Chemicals Inv.	y (positive listing)	Remarks: None.
(KECI):		
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory
New Zealand Inventory of	y (positive listing)	Remarks: None.
Chemicals:	, J	

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

HMIS Hazard ID



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

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Revision Date: No data available.

Version #: 1.0

Further Information: No data available.

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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.

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