# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** ELEMAX 5000 2GP

**Other means of identification**
**Synonyms:** Silicone Rubber Sealant

**Recommended use and restriction on use**
**Recommended use:** Sealant
**Restrictions on use:** For industrial use only.

| | | |
|---|---|---|
| **Manufacturer/Importer/Distributor Information** | : | Momentive Performance Materials USA LLC<br>2750 Balltown Road,<br>Niskayuna, NY 12309 |
| **Contact person** | : | commercial.services@momentive.com |
| **Telephone** | : | General information<br>+1-800-295-2392 |
| **Emergency telephone number**<br>**Supplier** | : | CHEMTREC<br>1-800-424-9300 |

## 2. Hazard(s) identification

**Hazard Classification**

**Health Hazards**

Reproductive toxicity Category 2

**Label Elements**

**Hazard Symbol:**

**Signal Word:** Warning

| | |
|---|---|
| **Hazard Statement:** | H361f; Suspected of damaging fertility. |
| **Precautionary Statements** | |
| **Prevention:** | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |
| **Response:** | IF exposed or concerned: Get medical advice/attention. |
| **Storage:** | Store locked up. |
| **Disposal:** | Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations. |
| **Hazard(s) not otherwise classified (HNOC):** | 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 |
|---|---|---|---|
| Calcium carbonate | 1317-65-3 | 30 - <60% | # This substance has workplace exposure limit(s). |
| (1) Carbon Black | 1333-86-4 | 1 - <5% | # 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, move 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/effects, acute and delayed**

**Symptoms:** Treatment is symptomatic and supportive.

**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:** No data available.

**Suitable (and unsuitable) extinguishing 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:** No data available.

**Special protective equipment and precautions for fire-fighters**

**Special fire-fighting procedures:** No data available.

**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

**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.

**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 | Type | Exposure Limit Values | Source |
|---|---|---|---|
| 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) |
| 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) |
| Calcium carbonate - Total dust. | TWA | 15 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| Calcium carbonate - Respirable fraction. | TWA | 5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| Calcium carbonate - Inhalable particles. | TWA | 10 mg/m3 | US. ACGIH Threshold Limit Values, as amended (01 2021) |
| Calcium carbonate - Respirable particles. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values, as amended (01 2021) |
| Calcium carbonate - Respirable fraction. | TWA PEL | 5 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (12 2017) |
| Calcium carbonate - Total dust. | TWA PEL | 10 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (12 2017) |
| Calcium carbonate - Respirable fraction. | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| Calcium carbonate - Total dust. | TWA | 15 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| Calcium carbonate - Respirable fraction. | TWA | 5 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| Calcium carbonate - Total dust. | TWA | 50 millions of particles per | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |

| | | | |
|---|---|---|---|
| | | cubic foot of air | |
| (1) Carbon Black - Inhalable fraction. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| (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) |
| (1) Carbon Black - Respirable fraction. | TWA | 5 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| (1) Carbon Black - Total dust. | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| | TWA | 15 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| (1) Carbon Black | TWA PEL | 3.5 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (09 2006) |
| | TWA | 3.5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |
| | PEL | 3.5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| (1) Carbon Black - Inhalable fraction. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values, as amended (12 2010) |

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 (PPE)**

**General information:** No data available.

**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 inhalation exposure is expected, 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:** | 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 explosive 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:** | ca. 1.400 g/cm3 |
| **Relative density:** | 1.40 |
| **Solubility(ies)** | |
| **Solubility in water:** | Insoluble |
| **Solubility (other):** | 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:** | No data available. |
| **Minimum ignition temperature:** | 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 (CO2) 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 effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

| | |
|---|---|
| **Product:** | ATEmix: 63,291.14 mg/kg |

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | LD 50 (Rat): > 4,800 mg/kg |

**Dermal**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | LD 50 (Rat): > 2,375 mg/kg |

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | 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:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:**
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

| | |
|---|---|
| **Product:** | No data available. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | Ames-Test (OECD-Guideline 471): negative (not mutagenic)<br>Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic) |

**In vivo**

| | |
|---|---|
| **Product:** | No data available. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | Chromosomal aberration (OECD 475) Inhalation (Rat, male and female): negative<br>Dominant lethal assay (OECD 478) Oral (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.

**Aspiration Hazard**

**Product:** No data available.

**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 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):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | No toxicity at the limit of solubility ; LC50 (Oncorhynchus mykiss, 96 h): > 0.022 mg/l |

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | No toxicity at the limit of solubility ; EC50 (Daphnia magna, 48 h): > 0.015 mg/l |

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l |

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | No toxicity at the limit of solubility ; NOEC (Daphnia magna, 21 d): > 0.015 mg/l |

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | No toxicity at the limit of solubility ; ErC50 (Selenastrum capricornutum, 96 h): > 0.022 mg/l |

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | 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 (BCF)**

**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | Bioconcentration Factor (BCF): 12,400 |

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

| | |
|---|---|
| Calcium carbonate | No data available. |
| (1) Carbon Black | No data available. |
| Octamethylcyclotetrasiloxane | No data available. |

**Other adverse effects:** No data available.

## 13. Disposal considerations

**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.

## 14. Transport information

**DOT**
Not Regulated.

**IATA**
Not Regulated.

**IMDG Code**
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.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Product is not transported in bulk.

## 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.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)**
None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended**
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**
Carcinogenicity
Reproductive toxicity

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**
None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (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**

**WARNING:** This product can expose you to chemicals including (1) Carbon Black, (1) QUARTZ, which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

**US. Massachusetts RTK - Substance List**

**Chemical Identity**
(1) Carbon Black
(1) QUARTZ

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Calcium carbonate
(1) Carbon Black

**US. Rhode Island RTK**

**Chemical Identity**

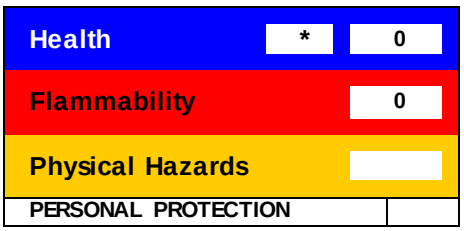
(1) Carbon Black

**Inventory Status:**

| | | |
|---|---|---|
| Australia Industrial Chem. Act (AIIC): | On or in compliance with the inventory | Remarks: None. |
| Canada DSL Inventory List: | On or in compliance with the inventory | Remarks: None. |
| Canada NDSL Inventory: | Not in compliance with the inventory. | Remarks: None. |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory | Remarks: None. |
| Japan (ENCS) List: | Not in compliance with the inventory. | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI): | On or in compliance with the inventory | Remarks: None. |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory | Remarks: None. |
| Philippines PICCS: | On or in compliance with the inventory | Remarks: None. |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory | Remarks: None. |
| US TSCA Inventory: | On or in compliance with the inventory | Remarks: Commercial Status: Active |
| REACH: | If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants. | Remarks: None. |

## 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

| | |
|---|---|
| **Issue Date:** | 07/18/2025 |
| **Revision Date:** | No data available. |
| **Version #:** | 4.2 |
| **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 asa guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrantyor 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.