



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

1 Product and company identification

1.1 Identification of the substance or preparation:

Product Name: DuPont™ Concrete & Masonry Premier Silicone - Light Gray
Use of substance: Sealant
Product Code(s): 07644

1.2 Company/undertaking identification:

Manufacturer/distributor: Tower Sealants
 2095 Memorial Park Road
 Gainesville, GA 30504
 USA

Emergency Contact: Chemtrec
Chemtrec Phone: 1-800-424-9300

This MSDS was prepared by the Regulatory Affairs and Product Safety Department.
 Contact: Robert S. Stannard, VP Technology, Tower Sealants.

2 Composition/information on ingredients

2.1 Chemical characterization (preparation)

Chemical characteristics

Polydimethylsiloxane and auxiliary + crosslinker

2.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	128446-60-6	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated	1.0	5.0	
INHA	919-30-2	Triethoxysilyl propanamine	1.0	5.0	
INHA	21743-27-1	Morpholinylmethyltriethoxysilane	1.0	5.0	
NEBE	64-17-5	Ethanol	varies	varies	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

This material does not contain any OSHA or WHMIS reportable hazardous ingredients.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3 Hazards identification

3.1 Hazards classifications

HMIS® rating (product as packaged):

Health: 1

Fire: 1

Reactivity: 1

PPE: B



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Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

(HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards

Signal Word:

WARNING

Physical Hazards:

No known physical hazards.

Acute health effects

Route of entry or possible contact:

eyes , skin , inhalation (hydrolysis products) .

Eye contact:

Causes eye irritation.

Skin contact:

May cause skin irritation.

Inhalation:

Inhalation is not expected due to low vapor pressure or high viscosity. See Sect. 3.2 "Additional information on acute health effects".

Ingestion:

No known ingestion hazards.

Additional information on acute health effects:

Ingestion is not expected during industrial use. The toxicological evaluation is based on experience during manufacture and/or on analogy to a similar product which has been tested. This material releases acetic acid upon moisture curing. Upon completion of the curing process, acetic acid will no longer be released. Acetic acid is moderately toxic by ingestion and inhalation. Dilute acetic acid is however, approved for food use. Acetic acid is a severe skin, eye and mucous membrane irritant. Skin sensitization is rare but has been reported. Chronic exposure can cause bronchitis and pharyngeal edema. Acetic acid may cause burns upon prolonged or repeated contact.

3.3 Further information:

Chronic health effects:

No known or expected chronic health effects.

Medical conditions which may be aggravated by exposure:

none known .

Target organs affected:

No known internal organ effects.

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

4 First-aid measures

- 4.1 General information:**
Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.
- 4.2 After inhalation**
Material cannot be inhaled under normal conditions. Hydrolysis product(s): If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.
- 4.3 After contact with the skin**
For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.
- 4.4 After contact with the eyes**
If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.
- 4.5 After swallowing**
For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Get medical attention immediately.
- 4.6 Advice for the physician**
Treat symptomatically.

5 Fire-fighting measures

- 5.1 Flammable properties:** **Method**
Flash point.....: not applicable
Boiling point / boiling range.....: not applicable
Lower explosion limit (LEL).....: not applicable
Ignition temperature: > 400 °C (> 752 °F)
- 5.2 Fire and explosion hazards:**
This material will burn with a lazy smoldering flame. Hydrolyzes on contact with moisture releasing ignitable vapors. Consider possible formation of explosive mixtures with air, for example in uncleaned containers.
- 5.3 Recommended extinguishing media:**
carbon dioxide, dry sand, dry chemical or foam-type extinguishing media
- 5.4 Unsuitable extinguishing media:**
sharp water jet
- 5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**
Hazardous combustion products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide , nitrogen oxides and incompletely burnt hydrocarbons .
- 5.6 Fire fighting procedures:**
Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus.



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

6 Accidental release measures

6.1 Precautions:

Wear personal protection equipment (see section 8).

HAZWOPER PPE Level: D

6.2 Containment:

Prevent material from entering surface waters, drains or sewers and soil. Retain contaminated water/extinguishing water.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

6.4 Further information:

Eliminate all sources of ignition.

7 Handling and storage

7.1 Handling

Precautions for safe handling:

No special protective measures required.

Precautions against fire and explosion:

Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

7.2 Storage

Conditions for storage rooms and vessels:

none known

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place.

8 Exposure controls and personal protection

8.1 Engineering controls

Ventilation:

Use only with adequate ventilation.

Local exhaust:

In case of potential decomposition products: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use.



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	
64-17-5	Ethanol	ACGIH TWA		1,000.0	

Re Ethanol (CAS no. 64-17-5): carcinogenicity: A4 (ACGIH).

8.3 Personal protection equipment (PPE)

Respiratory protection:

Respiratory protection is not normally required. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur.

Hand protection:

Any liquid-tight rubber or vinyl gloves.

Eye protection:

Safety glasses with side shields or chemical safety goggles.

Other protective clothing or equipment:

Long pants and long sleeved shirts. Provide emergency shower and eye-bath.

8.4 General hygiene and protection measures:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

9 Physical and chemical properties

9.1 Appearance

Physical state / form.....: paste
Color.....: grey
Odor.....: characteristic

9.2 Safety parameters

	Method
Melting point / melting range.....: not applicable	
Boiling point / boiling range.....: not applicable	
Flash point.....: not applicable	
Ignition temperature: > 400 °C (> 752 °F)	
Lower explosion limit (LEL).....: not applicable	
Vapour pressure.....: not determined	
Density.....: 1.03 g/cm ³ at 23 °C (73 °F)	(DIN 51757)
Water solubility / miscibility.....: insoluble	
pH-Value.....: not applicable	
Viscosity (dynamic).....: not applicable	

10 Stability and reactivity

10.0 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid

moisture

10.2 Materials to avoid

Reacts with: water , basic substances and acids . Reaction causes the formation of: ethanol .

10.3 Hazardous decomposition products

ethanol . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.4 Further information:

Hazardous polymerization cannot occur.



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

11 Toxicological information

11.1 General information:

Toxicological testing has not been conducted with this material.

11.2 Toxicological data:

Experience with man

-

12 Ecological information

12.1 Information on elimination (persistence and degradability)

Biodegradation / further information:

The hydrolysis product (Ethanol) is readily biologically degradable. Silicone content: Biologically not degradable.

Further information:

Silicone content: Insoluble in water. Absorbed by floating particles. Separation by sedimentation. By hydrolysis: ethanol

12.2 Behavior in environmental compartments

Mobility

Silicone content: Insoluble in water.

Further information:

Bioaccumulation is not expected to occur.

12.3 Ecotoxicological effects:

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

12.4 Additional information

Other harmful effects

none known

General information:

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable. In cross-linked state not soluble in water.

13 Disposal considerations

13.1 Product disposal

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging disposal

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

15 Regulatory information

15.1 U.S. Federal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

CAS No.	Chemical	Reporting required under TSCA
128446-60-6	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated	One time export notification under TSCA 5(a) (2) required.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

67-56-1 Methanol

15.2 U.S. State regulations

California Proposition 65 Carcinogens:

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:

112945-52-5 Silica, amorphous, fumed

New Jersey Right-to-Know Hazardous Substance List:

112945-52-5 Silica, amorphous, fumed

Pennsylvania Right-to-Know Hazardous Substance List:

112945-52-5 Silica, amorphous, fumed

15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

None.

DSL Status:

This material or one or more of its components is not listed on the Canadian Domestic Substances List. However, the material or some of it's components are listed on the NDSL (Non-Domestic Substances List).

Non-DSL Chemicals:

CAS No.	Chemical	Upper limit wt. %
128446-60-6	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated	2.4414
870-08-6	Diocetyl tin oxide	0.0899
Confidential	Wacker Proprietary Non-DSL Chemical	0.0782
21743-27-1	Morpholinomethyltriethoxysilane	1.9728



Material Safety Data Sheet

Version: 1.0

Date of last alteration: 03/10/2010

DuPont™ Concrete & Masonry Premier Silicone - Light Gray

Canadian Ingredient Disclosure List:

112945-52-5 Silica, amorphous, fumed

15.4 Other international regulations

EU Risk Phrases:

R-Phrase	Description
R-	-

EU Safety Phrases:

S-Phrase	Description
S-	-

Details of international registration status

Listed on or in accordance with the following inventories:

- EINECS - Europe
- ELINCS - Europe
- ECL - Korea
- PICCS - Philippines
- TSCA - USA

16 Other information

16.1 Additional information:

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

16.2 Glossary of Terms:

- | | |
|---|--|
| ACGIH - American Conference of Governmental Industrial Hygienists | ppm - Parts per Million |
| DOT - Department of Transportation | SARA - Superfund Amendments and Reauthorization Act |
| hPa - Hectopascals | STEL - Short Term Exposure Limit |
| mPa*s - Milli Pascal-Seconds | TSCA - Toxic Substances Control Act |
| OSHA - Occupational Safety and Health Administration | TWA - Time Weighted Average |
| PEL - Permissible Exposure Limit | WHMIS - Canadian Workplace Hazardous Materials Identification System |

Flash point determination methods

- ASTM D56
- ASTM D92, DIN 51376, ISO 2592
- ASTM D93, DIN 51758, ISO 2719
- ASTM D3278, DIN 55680, ISO 3679
- DIN 51755

Common name

- Tagliabue (Tag) closed cup
- Cleveland open cup
- Pensky-Martens closed cup
- Setaflash or Rapid closed cup
- Abel-Pensky closed cup

16.3 Conversion table:

- Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
- Viscosity: 1 mPa*s = 1 centipoise (cP)



Material Safety Data Sheet

Version: 1.0

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DuPont™ Concrete & Masonry Premier Silicone - Light Gray

Warning: Although there is no lead in this product: scraping, sanding, or removing old paint may release lead dust. LEAD IS TOXIC. Exposure to lead dust can cause serious illness. This can include brain damage, especially in children. Pregnant women are also particularly at risk, and should avoid exposure. Always use a NIOSH approved respirator to control lead exposure. Clean up area with a HEPA vacuum and a wet mop. Before starting any project that may expose individuals to paint dust, find out how to protect yourself, your co-workers, and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD.

The information contained herein relates only to the specific material identified. Tower Sealants believes that such information is accurate and reliable as of the date of this MSDS sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Tower Sealants urges persons receiving this information to make their own determination as to the information's suitability and completeness to their particular application. It is the buyer's / users responsibility to ensure that all activities comply with the appropriate federal, state, and local laws.