

SILGLAZE-N10

# SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** SILGLAZE-N10

**Recommended use:** Sealant

**Limitations on use:** For industrial use only.

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials Asia Pacific Pte, Ltd.  
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Singapore

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**Responsible Department** : Product Stewardship & Compliance

## 2 HAZARDS IDENTIFICATION

**GHS classification:**

**Health Hazards:**

Skin sensitizer

Category 1

**GHS label elements:**

**Symbol(s):**



**Signal Word:** Warning

**Hazard Statement(s):** May cause an allergic skin reaction.

**Precautionary Statements**

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash it before reuse.

**Storage:** Not applicable

**Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

## SILGLAZE-N10

**Other hazards which do not result in classification:**

**Primary hazards:** No data available.

**Specific hazards:** No data available.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature:** Mixture of polydimethylsiloxanes, fillers and cross-linkers.

**Substance or Preparation:**

**Mixtures**

**Hazardous ingredients:**

Chemical Identity	CAS number	Concentration*
methyl tris-(methyl ethyl ketoximo) silane	22984-54-9	<10%
butanone oxime vinylsilane	2224-33-1	<10%
Aminoethyl aminopropyl trimethoxy silane	1760-24-3	<10%
Octamethylcyclotetrasiloxane	556-67-2	<10%

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

### 4 FIRST AID MEASURES

**Inhalation:** Get medical attention.

**Eye contact:** Rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** Wash with plenty of soap and water.

**Ingestion** Do not induce vomiting. Get medical attention immediately.

**Likely Acute or Delayed Symptoms/Effects** None known.

**Notes to the physician:** Treatment is symptomatic and supportive.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing media:** Extinguish with foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazard arising from the chemical:** By heating and fire, irritating vapors/gases may be formed. In case of fire, carbon monoxide and carbon dioxide may be formed.

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### Special fire-fighting procedures:

Remove sources of combustibles. Extinguish the fire using fire-fighting media listed above. Cool surrounding tanks, buildings and so on by spraying with water to prevent the fire extension.

The fire fighting should be done from the windward side, with suitable respiratory protective device, if necessary.

### Special protective action for fire fighters:

Wear self-contained breathing apparatus and protective clothing.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep unauthorized personnel away. Keep upwind.

### Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

### Methods and material for containment and cleaning up:

Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill is small.

### Notification Procedures:

Remove sources of ignition.

## 7 HANDLING AND STORAGE

### Precautions for safe handling:

Keep away from sources of ignition - No smoking. Avoid inhalation of vapors and spray mists. Use only with adequate ventilation. Methyl ethyl ketoxime (MEKO; 2-Butanone-oxime) is formed during processing

### Condition for safe storage, including any incompatibilities:

Store in a dark, cool place indoors, with container tightly closed.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Appropriated engineering control measures:

Wear suitable gloves and eye/face protection.

### Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values	Source
Silica - Particulate.	TWA	10 mg/m3	Singapore. PELs. (Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order), as amended (2006)

None known.

### Personal protective equipment (PPE)

#### Respiratory Protection:

Gas mask for organic gas if MEKO exposure limits are exceeded (3 ppm 8-hr TWA, recommended workplace exposure guideline.

#### Eye Protection:

Safety glasses with side shields

#### Hand Protection:

Chemical resistant gloves

#### Skin Protection:

Chemical resistant boots. Chemical resistant clothing

#### Hygiene measures:

Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.

**SILGLAZE-N10**

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Colorless
<b>Odor:</b>	Faint
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting Point:</b>	Not applied
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	63 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.

<b>Relative vapor density:</b>	No data available.
<b>Density:</b>	1.04 g/cm <sup>3</sup> (23 °C)
<b>Relative density:</b>	No data available.

**Solubility(ies)**

<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.

<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
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<b>Auto-ignition temperature:</b>	450 °C
<b>Decomposition Temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	> 20.5 mm <sup>2</sup> /s (40 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**Particle characteristics**

<b>Particle Size:</b>	No data available.
<b>Particle Size Distribution:</b>	No data available.
<b>Specific surface area:</b>	No data available.
<b>Surface charge/Zeta potential:</b>	No data available.
<b>Shape:</b>	No data available.
<b>Crystallinity:</b>	No data available.
<b>Surface treatment:</b>	No data available.

**Other information**

<b>Self-ignition:</b>	450 °C/842 °F
<b>Miscible (water):</b>	immiscible

**10 STABILITY AND REACTIVITY**

<b>Incompatible Materials:</b>	Moisture.
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## SILGLAZE-N10

<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Keep away from heat, sparks and open flame.
<b>Hazardous Decomposition Products:</b>	Reacts with water/moisture liberating Methyl ethyl ketoxime (MEKO) = 2-Butanone-oxime. 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

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

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

#### Oral

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	LD 50, Rat, > 4,800 mg/kg, OECD-Guideline 401 (Acute Oral Toxicity), Not classified

#### Dermal

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	LD 50, Rabbit, > 2,000 mg/kg
Octamethylcyclotetrasiloxane	LD 50, Rat, > 2,375 mg/kg, OECD Test Guideline 402, Not classified

#### Inhalation

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	Category 4 Inhalation - dust and mist
Octamethylcyclotetrasiloxane	LC50, Rat, male and female, 4 h, 36 mg/l, Aerosol, OECD Test Guideline 403, Not classified

#### Repeated dose toxicity

<b>Product:</b>	No data available.
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### Components:

methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	NOAEL Rat, Oral, 28 d, >= 500 mg/kg
Octamethylcyclotetrasiloxane	No data available.

### Skin Corrosion/Irritation

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	Corrosive
butanone oxime vinylsilane	Corrosive
Aminoethyl aminopropyl trimethoxy silane	OECD Test Guideline 404, Rabbit, No skin irritation
Octamethylcyclotetrasiloxane	OECD Test Guideline 404, Rabbit, Non irritating

### Serious Eye Damage/Eye Irritation

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	Irritating to eyes.
butanone oxime vinylsilane	Risk of serious damage to eyes.
Aminoethyl aminopropyl trimethoxy silane	OECD Test Guideline 405, Rabbit, Strongly irritating.
Octamethylcyclotetrasiloxane	OECD-Guideline 405 (Acute Eye Irritation/Corrosion), Rabbit, Non irritating

### Respiratory or Skin Sensitization

<b>Product:</b>	Causes sensitization on guinea-pigs. No human information is available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	Sensitisation, skin, May cause sensitization.
butanone oxime vinylsilane	Sensitisation, skin, May cause sensitization.
Aminoethyl aminopropyl trimethoxy silane	OECD Guideline 429 (LLNA), Guinea Pig, positive
Octamethylcyclotetrasiloxane	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation), Guinea Pig, Not sensitizing

### Carcinogenicity

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	Inhalation

### Germ Cell Mutagenicity In vitro

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.

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Octamethylcyclotetrasiloxane  
Ames-Test, OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay): , negative (not mutagenic)  
Mouse Lymphoma Assay (OECD Guideline 476): , negative (not mutagenic)

### In vivo

**Product:** No data available.  
**Components:**  
methyl tris-(methyl ethyl ketoximo) silane  
methyl tris-(methyl ethyl ketoximo) silane  
butanone oxime  
vinylsilane  
butanone oxime  
vinylsilane  
Aminoethyl aminopropyl trimethoxy silane  
Aminoethyl aminopropyl trimethoxy silane  
Octamethylcyclotetrasiloxane  
Octamethylcyclotetrasiloxane  
Chromosomal aberration, OECD 475, Inhalation, Rat, male and female, negative  
Dominant lethal assay, OECD 478, Oral, Rat, male and female, negative

### Reproductive toxicity

**Product:** No data available.  
**Components:**  
methyl tris-(methyl ethyl ketoximo) silane  
butanone oxime vinylsilane  
Aminoethyl aminopropyl trimethoxy silane  
Octamethylcyclotetrasiloxane  
Category 2

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.  
**Components:**  
methyl tris-(methyl ethyl ketoximo) silane  
butanone oxime vinylsilane  
Aminoethyl aminopropyl trimethoxy silane  
Octamethylcyclotetrasiloxane  
No data available.

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.  
**Components:**  
methyl tris-(methyl ethyl ketoximo) silane  
butanone oxime vinylsilane  
Aminoethyl aminopropyl trimethoxy silane  
Octamethylcyclotetrasiloxane  
Category 2 (Cardiovascular system)  
Category 2 (blood system)  
Category 2 (Respiratory Tract)  
No data available.

### Aspiration Hazard

**Product:** No data available.  
**Components:**

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methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	No data available.

### Information on health hazards

#### Other hazards

##### Product:

This product will liberate methyl-ethyl-ketoxime (MEKO) on curing, contact with water or moisture in the air.

The toxicity of pure MEKO is characterized by:

Mild skin irritation, severe eye irritation, and systemic toxicity after inhalation or long term exposure. The acute inhalation 4-hr LC50 was > 4.8 mg/L.

Long-term inhalation studies (>28 days) with 2-butanone-oxime in male rats and mice showed at concentrations of 10 ppm and higher atrophy of the mucous membrane of the nose in rats and mice. This effect is most probably due to the irritating potential of 2-butanone-oxime.

Central nervous system effects (motor function, narcotic), which were reversible, when exposure is terminated, were observed at high concentrations. Acute exposure to 400 ppm in air caused effects on blood chemistry (methemoglobinemia).

MEKO has been shown to elicit skin sensitization in Guinea pigs, but no sensitization has been reported in humans.

After life long inhalation exposure to the maximum concentration of 375 ppm liver carcinomas were observed in male rats and mice. In male rats exposed to concentrations of 75 ppm benign liver tumors were observed. The lowest test concentration of 15 ppm caused no tumors. The relevance of these tumors to humans is unknown.;

#### Additional toxicological Information under the conditions of use :

No data available.

## 12 ECOLOGICAL INFORMATION

#### Ecotoxicity:

##### Toxicity to Aquatic Plants

##### Product:

No data available.

##### Components:

methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	EC50, Algae ( <i>Pseudokirchneriella subcapitata</i> ), 96 h, 8.8 mg/l NOEC, Algae ( <i>Pseudokirchneriella subcapitata</i> ), 3.1 mg/l
Octamethylcyclotetrasiloxane	ErC50, <i>Selenastrum capricornutum</i> , 96 h, >, 0.022 mg/l, No toxicity at the limit of solubility

##### Toxicity to microorganisms

##### Product:

No data available.

##### Components:

methyl tris-(methyl ethyl ketoximo) silane	No data available.
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butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	No data available.

### Acute hazards to the aquatic environment:

#### Fish

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	LC50, Lepomis macrochirus, > 100 mg/l
Octamethylcyclotetrasiloxane	LC50, Oncorhynchus mykiss, 96 h, >, 0.022 mg/l, No toxicity at the limit of solubility

#### Aquatic Invertebrates

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	EC50, Daphnia magna, 48 h, 87.4 mg/l
Octamethylcyclotetrasiloxane	EC50, Daphnia magna, 48 h, >, 0.015 mg/l, No toxicity at the limit of solubility

### Chronic hazards to the aquatic environment:

#### Fish

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	NOEC, Oncorhynchus mykiss, 93 d, >=, 0.0044 mg/l, No toxicity at the limit of solubility

#### Aquatic Invertebrates

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	NOEC, Daphnia magna, 21 d, >, 0.015 mg/l, No toxicity at the limit of solubility

### Persistence and Degradability

#### Biodegradation

<b>Product:</b>	No data available.
<b>Components:</b>	

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methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	3.7 %, 29 d, 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test), Not readily biodegradable., Persistent

### BOD/COD Ratio

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	12,400

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

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	No data available.

### Mobility in soil:

<b>Product:</b>	No data available.
<b>Components:</b>	
methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	No data available.

### Results of PBT and vPvB assessment:

<b>Product:</b>	No data available.
<b>Components:</b>	

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methyl tris-(methyl ethyl ketoximo) silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Octamethylcyclotetrasiloxane	No data available.

### Other adverse effects:

#### Other hazards

**Product:** No data available.

## 13 Disposal considerations

## 14 TRANSPORT INFORMATION

#### ADR

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

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

### Fire Safety (Petroleum and Flammable Materials) Regulations

Not applicable

#### International regulations

##### Montreal protocol

Not applicable

##### Stockholm convention

Not applicable

**SILGLAZE-N10**

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status**

Australia Industrial Chem. Act (AIIC):	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	Q (quantity restricted)	Remarks: Please contact your supplier for further information on the inventory status of this material.
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:	On or 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:	Q (quantity restricted)	Remarks: Low Volume Exemption

**16 OTHER INFORMATION**

**Revision Information:** ARGLO\_INVSTSARGHS\_SG  
**Issue Date:** 2024/10/25  
**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.

**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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