

Safety Data Sheet

Prepared in accordance with GHS standard
& Annex II - EC regulation 1907/2006 and amendments

Gem-Gard SL 100

SDS No: G 527 – 04.15.01

Last Revision Date: June 2019

SECTION 1. IDENTIFICATION

Material Identification: Gem-Gard SL 100

Chemical Name: Isobutyltrimethoxysilane

Chemical Classification: Alkoxysilane

CAS#: 18395-30-7

Company Identification: Gemite Products Inc.

1787 Drew Road

Mississauga, ON

Canada, L5S 1J5

Recommended Product Usage

Intermediates

Concrete/Masonry/Stone sealer

24-HOUR EMERGENCY RESPONSE TELEPHONE NUMBER: (416) 567-8879
USE IN CASE OF A DANGEROUS GOODS EMERGENCY

SECTION 2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION:

Flammable liquid: Category 3

Skin irritation: Category 2

Specific target organ toxicity – single exposure: Category 3

GHS LABEL ELEMENTS (including precautionary statements):

Symbol :



Signal Word:

Warning

Hazard Risk Statement:

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

Precautionary Statement:

Prevention:

P210: Keep container tightly closed and away from ignition sources such as heat, sparks and open flame. **NO SMOKING.**

P240: Ground all equipment and use only non-sparking tools.

P280: Wear protective gloves/eye protection/face protection.

Response:

P305 + P351: **IF IN EYES:** Rinse with water for several minutes. Repeat if needed.

P303 + P361+P353: **IF ON SKIN:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage:

P403 + P235: Store in well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container in accordance with local / regional / national / international regulations.

OTHER HAZARD (risk not included in classification):

Product evolves flammable methyl alcohol on exposure to water or humid air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Common Name or Synonym</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>% (w/w)</u>	<u>GHS Classification</u>	<u>Classification according to Directive 67-548/EEC</u>
Trimethoxy (2-methylpropyl) silane	Isobutyl (trimethoxy)silane	18395-30-7	242-272-5	>99.0	Flammable liquid: Cat 3 Skin Irritation: Cat 2 Specific target organ toxicity – single exposure: Cat 3	Xi R10 R36/37/38
Methyl Alcohol	Methanol	67-56-1	200-659-6	< 1.0	Flammable liquid: Cat 3 Acute toxicity: Cat 3 (inhalation, dermal, oral) Specific target organ toxicity – single exposure: Cat 3	Xn R20/21/22

SECTION 4. FIRST AID MEASURES

Eyes: In case of contact, immediately flush with eyes with water for at least 15 minutes.

Skin: In case of contact, immediately wash skin with soap and water.

Inhalation: If discomfort occurs, remove to fresh air. Obtain medical attention.

Ingestion: DO NOT INDUCE VOMITING. If patient is fully conscious and not convulsing, give 2 to 4 glasses of water to dilute the material. Transport to medical facility. If spontaneous vomiting occurs have victim lean forward to avoid breathing in of emesis. Rinse mouth and administer more water.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.

Unsuitable Extinguishing Media: High volume water jet.

Specific Hazards Arising from the Chemical: Vapours may travel considerable distance to ignition source and flash back.

Special Protective Actions for Fire-Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Use water spray to cool fire exposed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Avoid eye and skin contact. Use personal protective equipment. Eliminate all possible sources of ignition.

Environmental Precautions: Prevent from entering drains or water sources.

Containment/Clean up: Collect for disposal. Clean up remaining materials from spill with suitable absorbent. For large spills provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean area as appropriate since some silicone material, even in small quantities, may present a slip hazard. Final cleaning may require steam, solvents or detergents.

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is grounded. Avoid eye and skin contact. Do not take internally. Use with adequate ventilation. Wash after handling. Exercise good industrial hygiene practice.

Storage Conditions: Keep container tightly closed and store in a flameproof, well ventilated area. Store away from water or moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT VALUES / BIOLOGICAL LIMIT VALUES:

Industrial Hygiene Standards

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>
Methyl Alcohol	67-56-1	TWA : 200ppm/260 mg/m ³

ENGINEERING CONTROLS:

Local Ventilation: Required.
General ventilation: Required.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.
Hand protection: Chemical resistant gloves recommended.
Eye protection: Safety glasses should be worn.
Skin protection: Wear appropriate clothing.
Hygiene measures: Observe good industrial hygiene practices. Wash after handling.

Note: These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Clear Liquid	<u>Viscosity@25°C:</u>	1 cps
<u>Colour:</u>	Colourless	<u>Melting/Freezing Point:</u>	Not determined
<u>Odour:</u>	Faint	<u>Initial Boiling Point:</u>	155.5°C @ 760 mmHg
<u>Odour Threshold:</u>	Not determined	<u>Boiling Range:</u>	Not determined
<u>Flash Point:</u>	32°C (Pensky-Martens closed cup)	<u>Explosive Properties:</u>	Not determined
<u>Flammability:</u>	Not determined	<u>Vapour Pressure @20°C:</u>	Not determined
<u>Flammability Limits:</u>	Lower Limit: 0.92% Upper Limit: 16.0%	<u>Vapour Density</u>	Not determined
<u>Auto-ignition Temperature:</u>	267°C	<u>Partition Coefficient</u>	Not determined
<u>Decomposition Temperature:</u>	Not determined	<u>pH:</u>	Not determined
<u>Specific Gravity @25°C:</u>	0.92	<u>Oxidising Properties:</u>	Not determined
<u>Solubility in Water:</u>	Not determined	<u>Evaporation Rate:</u>	Not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Eliminate all possible sources of ignition.

Incompatible Materials: Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapours to form (methyl alcohol).

Hazardous Decomposition Products: The following decomposition products may form during fire or at very high temperatures: Carbon Oxides, Silicon oxides, formaldehyde.

SECTION 11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

Respiratory: Exposure is expected.

Oral: Exposure is expected.

Eye, Skin: Exposure is expected.

INFORMATION ON THE HEALTH HAZARDS:

Acute Toxicity:

Eyes: Direct contact may cause temporary redness and discomfort.

Skin: Direct contact may cause temporary redness and discomfort.

Inhalation: LC50 (rat) >1525 ppm, 4 hr (no acute inhalation toxicity)

Ingestion: LD50 (rat) 10,000 mg/kg (no acute oral toxicity)

Chronic Toxicity:

Skin: No known applicable information.

Inhalation: No known applicable information.

Ingestion: No known applicable information.

Other Health Hazard No known applicable information.

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Not classified based on available information.

Respiratory Sensitization: Not classified based on available information.

Skin Sensitization: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Germ Cell Mutagenicity: Not classified based on available information.

Reproductive Toxicity: Not classified based on available information.

Specific Target Organ: Inhalation – may cause drowsiness or dizziness.
(Systemic Toxicity – Single exposure)

Specific Target Organ: Not classified based on available information.
(Systemic Toxicity – Repeated exposure)

Aspiration Hazard: Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Environmental Effects

Acute: LC50 (Danio rerio {zebra fish}) > 100 mg/l , 96 hr

EC50 (Daphnia sp.) > 864 mg/l , 48 hr

Chronic: No known applicable information.

PERSISTENCE AND DEGRADABILITY:

Degradation:

Low molecular weight siloxanes have a very low water solubility and evaporate to air where they are degraded. In soil, siloxanes are also degraded.

Environmental Fate and Distribution:

Siloxanes are removed from water by sedimentation sewage or binding to sludge.

BIOACCUMULATIVE POTENTIAL:

Bioaccumulation:

No known applicable information.

MOBILITY IN SOIL:

No known applicable information.

OTHER ADVERSE EFFECTS:

No known applicable information.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Disposal: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.

Packaging Disposal: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORTATION INFORMATION

AIR TRANSPORT (IATA):

UN No.: 1993
Proper Shipping Name: Flammable liquid, n.o.s. (Isobutyltrimethoxysilane / Methanol)
Class: 3
Packing group: III
Labels: Flammable Liquid

SEA TRANSPORT (IMDG):

UN No.: 1993
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Isobutyltrimethoxysilane / Methanol)
Class: 3
Packing group: III
Emergency Schedule: F-E
(EmS): S-E
Labels: Flammable liquid

ROAD / RAIL:

ADR/RID
UN No.: 1993
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Isobutyltrimethoxysilane / Methanol)
Class: 3
Packing group: III
Labels: 3

CANADA TDG REGULATION / US DOT (49 CFR 172.101)

Shipping Name: Flammable liquid, N.O.S.
Technical Name: Isobutyltrimethoxysilane / Methanol
Primary Class: 3
Subsidiary Risk: Not assessed
Product Identification Number: UN 1993
Packing Group: III

SECTION 15. REGULATORY INFORMATION

CHEMICAL INVENTORIES:

TSCA: (USA)	All ingredients are on the inventory.
DSL: (Canada)	All ingredients are on the inventory.
EINECS: (EU)	All ingredients are on the inventory.
AICS: (Australia)	All ingredients are on the inventory.
IECSC: (China)	All ingredients are on the inventory.
MITI: (Japan)	All ingredients are on the inventory.
KECL: (Korea)	All ingredients are on the inventory.
NZIoC: (New Zealand)	All ingredients are on the inventory.
CSNN: (Taiwan)	All ingredients are on the inventory.
PICCS: (Philippines)	All ingredients are on the inventory.

CANADA

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

WHMIS Classification: **CLASS B - Division 2**
CLASS D- Division 2A
CLASS D- Division 2B

USA

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances (40 CFR 355):	None
Section 304 CERCLA Hazardous Substances (40 CFR 302):	None
Section 311/312 Hazard Class (40 CFR 370):	Acute: Yes ; Chronic: No ; Fire: Yes ; Pressure: No ; Reactive: No
Section 313 Toxic Chemicals (40 CFR 372):	None

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: **Methyl Alcohol (CAS# 67-56-1) < 1.0 %**.

Massachusetts / New Jersey / Pennsylvania Right-to-know Laws

Methyl Alcohol (CAS# 67-56-1) < 1.0 %

HMIS		NFPA	
H	3	3	0
F	3	2	0
R	0	—	—

EEC

Labelling according to EEC Directive

S-phrases: **S16** (Keep away from sources of ignition – no smoking)

S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice) | **S36** (Wear suitable protective clothing)

R-phrases: **R10** (Flammable) | **R36/37/38** (Irritating to eyes, respiratory system and skin.)

R20/21/22 (Harmful by inhalation, in contact with skin and if swallowed)

GERMANY

Wassergefährdungsklasse (water hazard class) : WGK 1

SECTION 16. OTHER INFORMATION

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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This is the last page.