

Safety Data Sheet

**Prepared in accordance with GHS standard
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II**

Revision date: June 2019

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Section 1: Identification

Product Identifier (Name) Gem-Strip CL™

Relevant identified uses of the chemical and restriction on use

The “Relevant” use identified is provided solely to conform to Governmental requirements and is not included in the manufacturer's published data and specifications. The complete information on identified uses is not available now, and the Safety Data Sheet (“SDS”) will be updated, as it becomes available.

Details of the supplier of the safety data sheet

| | |
|----------------------------|--|
| Manufacturer | Gemite Products Inc. 1787 Drew Road, Mississauga, Ontario, L5S 1J5, Canada |
| Telephone | (905) 672-2020 |
| Emergency telephone number | 905 672 2020 |

Other means of identification

Chemical family Composite carbon fiber reinforcement

Section 2: Hazard(s) identification

2. Hazards identification

| | |
|------------------------|--|
| OSHA Regulatory Status | This Product is Not Hazardous under the OSHA Hazard Communication Standard. |
| Physical hazards | Non-flammable |
| Health hazards | Not classified |
| Environmental | Not classified |
| Physiochemical | Physical: Carbon fiber contained in some products is electrically conductive |
| HHS Label element | Warning |



Hazard statements USHO1 May form combustible dust concentrations in air

Other hazards

Warning! This may cause mild, temporary mechanical eye or skin irritation, otherwise non-hazardous
Hazards: not otherwise classified
Signal words: none
Health hazards: See Section 11 Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

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Precautionary statement: Possible irritant to skin, eyes and respiratory tract when processed due to nuisance dust generation. Fiber is electrically conductive

Section 3: Composition/information on ingredients

| INGREDIENTS | % | TLV | CAS # |
|-----------------|-------|-----|-------------|
| Carbon fiber | 55-75 | N/A | 7440-44-0 |
| Thermoset resin | 25-45 | N/A | Proprietary |

Section 4: First-aid measures

Inhalation

With any sign of respiratory distress, affected persons should be taken into fresh air, and made to rest while medical attention is sought.

Ingestion

If fiber from the product is ingested, immediately rinse mouth repeatedly with water. If swallowing has occurred, do not induce vomiting. If requested, give affected person sips of water. Seek medical attention.

Skin Contact

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In case of contact with the product or the cured product dust or particulates, immediately wash skin with mild soap and water. Use a washcloth to help remove fibers. To avoid further irritation, do not scratch irritated areas. Rubbing or scratching may force the fibers into the skin. Get medical attention immediately if the irritation persists.

Eye contact

Contamination by fiber should be removed by flushing with water for at least 15 minutes. Seek medical attention if irritation persists.

Note for doctor: No specific recommendations. If in doubt, get medical attention promptly

Section 5: Fire-fighting measures

Suitable extinguishing media

Extinguish with foam, carbon dioxide, dry powder or foam

Special hazards arising from the substance or mixture

Carbon monoxide, Nitrogen oxides. Carbon fibers contained in some products are electrically conductive and if released during combustion may present a hazard to unprotected electrical apparatus.

Advice for firefighters

Special protective equipment. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective for firefighters clothing.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing.

Environmental precautions

Due to the physical nature of this product, environmental release to drains and water courses is not possible.

Methods and material for containment and cleaning up

Clean up material and put into a suitable container and dispose of properly (See Section 13).

Section 7: Handling and storage

Advice on safe handling:

No special measures necessary if used correctly. Optimal storage temperature is between -20 °C <-> -12 °C to prevent premature curing.

Advice on protection against fire and explosion:

Material in current or cured form is stable. Post processing via cutting or sanding may create dust which may form an explosive mixture with air and an ignition source. Steps should be taken to prevent processing dust from accumulating.

Requirements for storage rooms and vessels:

Storage should be in a container or room at a temperature between -20 °C & -12 °C.

Advice on storage compatibility:

Do not store together with oxidizing agents.

Further information on storage conditions:

Electrical equipment, enclosures and circuits in or near areas where Gem-Strip CF carbon fiber composite is processed should be protected against infiltration or contact with airborne particles or filaments. Carbon fiber is electrically conductive and may cause an electrical short.

Precautions for safe handling

Storage: Keep packages tightly closed and dry.

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Conditions for safe storage, including any incompatibilities

Store in tightly closed packaging. Keep dry

Section 8: Exposure controls/personal protection

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex).

Other skin and body

Wear appropriate clothing to prevent any possibility of skin contact protection

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Wear a suitable dust mask.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|--|
| Physical state | Black carbon fiber/resin sheet colored fiber |
| Color | Black |
| Odor | No characteristic odor |
| Melting point | 3500 °C |
| Solubility | Not applicable |
| Decomposition | 290°C |
| Density | 1.4-1.6 g/cm ³ |

Section 10: Stability and reactivity

Stability

Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions

Will not occur under normal conditions of use.

Conditions to avoid

Avoid heat, flames and other sources of ignition.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition

Does not decompose when used and stored as recommended. In an emergency situation leading to elevated temperature, there may be release of toxic gases and vapors. The products of combustion and de-composition will depend on other materials present in the fire and the actual conditions of the fire.

Section 11: Toxicological information

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Toxicological effects

There is no toxicological data for the final product.

Other health effects

The components present in this material at concentrations equal to or greater than 0.1% are not listed or regulated by IARC, NTP, OSHA or ACGIH as a carcinogen.

Inhalation

May cause irritation to the upper respiratory tract. Vapor or fumes generated from exposing this product to elevated temperatures may cause irritation to the respiratory tract. Dust or particulate from machining, grinding or sawing the cured product may cause irritation to the upper respiratory tract.

Ingestion

None expected under normal conditions of use. Ingestion is not an expected route of industrial exposure.

Skin Contact

Contact may cause mechanical irritation, skin redness, itching and drying of the skin. Prolonged or repeated contact may cause allergic skin reaction, dermatitis and possible sensitization.

Eye contact

May cause mechanical irritation. Vapor or fumes generated from exposing the product to elevated temperatures may cause irritation. Dust or particulate from the product or from machining, grinding or sawing the product may cause mechanical irritation.

Medical considerations

Preexisting eye, skin or respiratory disorders may be aggravated by contact and/or exposure to the product, the vapor or fumes generated from heating the product or to the dust or particulate from machining, grinding or sawing the cured product.

Section 12: Ecological information

Ecotoxicity

No ecological data has been determined on the total product.

Persistence and degradability

Not relevant due to the physical form of this product.

Bioaccumulative potential

Not relevant due to the physical form of this product.

Mobility in soil

Not relevant due to the physical form of this product.

Section 13: Disposal considerations

General information

Materials for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

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Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. For products containing carbon fiber, it is possible to recycle the carbon component.

Section 14: Transport information

| | |
|-----------------------------------|-------------------------|
| General: | not regulated |
| UN number | not dangerous goods |
| UN proper shipping name | not dangerous goods |
| DOT: | not dangerous goods |
| IATA: | not dangerous goods |
| IMDG: | not dangerous goods |
| Environmental hazardous substance | not hazardous substance |

Section 15: Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed

RCRA

RCRA Information: Currently, the product is not listed in the federal hazardous waste regulation 40 CFR, Part 261.33, paragraphs (E) or (F), ie. chemical products that are considered hazardous if they become waste. State or local hazardous waste regulations may also apply if they are different from the federal regulation. It is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal

SARA (311/312) Hazard Categories

Not listed

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Inventories

US - TSCA

This product is an article as defined by TSCA and is not required to be listed in the TSCA inventory.

US - TSCA 12(b) Export Notification

None

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Section 16: Other information

HMIS Classification

HMIS Health Rating: Health hazards 1
Flammability 0
Physical hazards 0
Personal protection X

NFPA: Health hazards 1
Flammability 0
Instability 0
Physical and chemical properties – personal protection X

Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notice to reader

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