

SAFETY DATA SHEET

Product : 290 high temperature rope

Date Prepared : May 10th, 2017

Section 1 - Product and Company Identification

Product Name/Identifier : 290 high temperature rope
Other name / Synonym : Fibrous glass, electrical grade glass
Company Information : Robco Inc.
Address : 7200 St.Patrick, LaSalle QC Canada H8N 2W7
Telephone : 514-367-2252
Email : info@robco.com
Website : www.robco.com

Section 2 - Hazards identification

OSHA HCS Status:

This product is a hazardous chemical substance, as defined by OSHA at 29 CFR 1910.1200. Hazards identified are based on hazards of the ingredients. The finished product has not been tested.

Relevant Route of Exposure/Target Organs:

Dermal, Inhalation

OSHA/GHS Signal Word and Hazard Statements:

WARNING: Causes mild skin irritation. May cause respiratory irritation.

OSHA/GHS Classification and Pictograms:

Skin irritation (Hazard Category 3)

Specific target organ toxicity, single exposure: Respiratory tract irritation (Hazard Category 3)



OSHA/GHS Precautionary Statements:

Prevention

Avoid breathing fibers or dust. Use only outdoors or in a well-ventilated area. Keep containers tightly closed.

Response

If large quantity of dust is inhaled: Remove victim to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.

If skin irritation occurs: Wash skin gently (avoid rubbing) with lukewarm water and mild soap. Get medical advice/attention if irritation persists.



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Avoid over-handling to limit dust. Store in a ventilated area. Keep container tightly closed.

Disposal

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

GHS Hazard and Precautionary Statement Codes: See Section 16.

Section 3 - Composition/information on ingredients

Chemical Product Name: Fiberglass fabric

Synonyms: Fibrous glass

| Component | CAS # | Max % by weight |
|-------------------------|--------------|-----------------|
| Glass, oxide, chemicals | 65997-17-3 | 95 to 99.5 |
| Fibrous glass dust | Not assigned | Not assigned |
| Normal textile sizing | Not assigned | 0.1 to 5.0 |

* Amount will be dependent upon method of handling

Section 4 - First aid measures

Skin Contact:

Flush with ample lukewarm water followed by washing with mild soap to remove accumulated fibers.

Eye Contact:

Flush with flowing water for 15 minutes – seek medical attention.

Inhalation:

Move to fresh air.

Ingestion:

Not likely to occur through normal use. Should ingestion occur, seek medical attention.

Most Important Symptoms/Effects:

Direct skin contact with fibrous glass or its dust may cause mechanical irritation and transitory dermatitis. Breathing of fibers or dust may cause mechanical irritation of the mouth, nose, and throat.

Indication of Immediate Medical Attention and Special Treatment Needed:

Get medical attention if product comes into contact with skin or eyes, or if it is inhaled or ingested.



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Section 5 - Firefighting measures

Extinguishing Media:

E-glass textile are non-combustible and will start to melt at 800°C (>1472°F). Water, dry powder, or foam (needed for packaging only).

Hazardous Combustion Products:

Not applicable.

Protective Equipment:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Fire Fighting Procedures/Precautions:

Fiberglass itself will not support combustion, but in a sustained fire, proper protection against products of combustion from the fuel must be worn.

Section 6 - Accidental release measures

Personal Precautions:

A release of this product is not expected to pose risks to workers under normal circumstances. If the material is involved in a fire, or if dusts are produced, no action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.

Protective Equipment:

Wear protective gloves/eye protection/skin protection.

Methods/Materials for Containment and Cleaning Up:

Dust or loose fibers can be vacuumed using a HEPA filter or swept with the aid of a dust suppressant. Dispose of in accordance with all government regulations. Do not discharge into waterways or sewer systems without proper authority.

Section 7 - Handling and storage

Precautions:

This product should be handled under conditions of good industrial hygiene and in conformity with any local regulations to avoid unnecessary exposure. Use in a well-ventilated area. Do not breathe dust. Avoid contact with skin.

Storage:

Store in a well-ventilated, dry location.

Section 8 - Exposure controls/personal protection

Exposure Limits:

| Component | OSHA/PEL | ACGIH/TLV |
|--------------|---------------------|---------------------|
| Fibrous dust | 5 mg/m ³ | 5 mg/m ³ |

* Dust may be produced during handling



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Engineering Controls:

Normal area ventilation is sufficient in most cases to keep dust and fiber levels below the TLV or PEL.

Personal Protection Measures/Equipment:

Skin Protection

Barrier creams, gloves, and long sleeve loose fitting clothing may be required for certain workers who have sensitive skin or contact dermatitis. Work clothing should be laundered separately from other clothing before reuse.

Eye Protection

Not normally required, but as a good safety work practice, eye protection such as safety glasses/side shields or equivalent whenever use of the product releases airborne fibrous glass.

Respiratory Protection

If airborne fibrous glass exceeds the regulatory limits, or if upper respiratory irritation occurs, use a N95 particulate filtering respirator.

Other Protection

Observe good personal hygiene.

Section 9 - Physical and chemical properties

| | |
|---|------------------|
| Appearance (physical state, color, etc.) | Solid, Blue Rope |
| Odor | No odor |
| Odor Threshold | None |
| pH | None |
| Melting Point/Freezing Point | >800°C (>1472°F) |
| Initial Boiling Point | Not applicable |
| Flash Point | Not applicable |
| Evaporation Rate | Not applicable |
| Flammability | Not applicable |
| Upper/Lower Flammability or Explosive Limits | Not applicable |
| Vapor Pressure | Not applicable |
| Vapor Density | Not applicable |
| Relative Density/Specific Gravity | 2.4 to 2.7 |
| Solubility | Insoluble |
| Partition Coefficient | Not known |
| Auto-ignition Temperature | Not known |
| Decomposition Temperature | Not known |
| Volatility | Not known |
| Viscosity | Not applicable |



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Section 10 - Stability and reactivity

Reactivity:

Not self-reactive, water-reactive, or spontaneously combustible

Chemical Stability:

This product is stable.

Hazardous Reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid:

When exposed to high temperatures may produce hazardous decomposition products.

Incompatible Materials:

Not known

Hazardous Decomposition Products:

Fiberglass products may release small amounts of acetic acid and other organic materials at elevated temperatures.

Hazardous Polymerization:

Will not occur

Section 11 - Toxicological Information

Relevant Route of Exposure/Target Organs:

Dermal, Inhalation

Symptoms:

Causes mild skin irritation. May cause irritation of the mouth, nose, and throat after inhalation exposure.

Delayed and Immediate Effects:

Not known

Chronic Effects (Short and Long Term Exposure):

Not known

Numerical Measures of Toxicity:

None

Carcinogenicity:

No ingredient is listed as a carcinogen by the NTP, IARC, or OSHA at 29 CFR 1910 Subpart Z.

Mutagenicity: No data available

Reproductive Toxicity: No data available



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Section 12 - Ecological information

No data available

Section 13 - Disposal considerations

Do not discharge into waterways or sewer systems without proper authority. Dispose of in accordance with all government regulations.

Section 14 - Transport information

Not regulated as a hazardous material/dangerous good for transportation in all modes of transportation (US DOT, ICAO/IATA, IMO).

Section 15 - Regulatory information

Canada:

All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the Canadian DSL.

TSCA Inventory Status:

Exempt per section 8(a), 710.2(f), and 704.5(a)

SARA Title III Section 302:

None

SARA Title III Section 304:

None

SARA Title III Section 311/312 Hazard Categories:

Immediate (acute)

SARA TITLE III Section 313:

This product does not contain components that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 (EPCRA or SARA Title III) and 40 CFR 372.

CERCLA RQ: Not listed

California Proposition 65: None known

Massachusetts Right-To-Know: Less than reportable quantity

New Jersey Right-To-Know: Less than reportable quantity

Pennsylvania Right-To-Know: Less than reportable quantity

Europe:

All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are not required to be listed on the EINECS.



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China:

All components of this product are included on the Chinese Inventory (IECSC) or are not required to be listed on the Chinese IECSC.

Japan:

All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea:

All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean ECL.

Philippines:

All components of this product are included on the Philippine (PICCS) or are not required to be listed on the Philippine PICCS.

Australia:

All components of this product are included on the Australian (AICS) or are not required to be listed on the Australian AICS.

Section 16 - Other information

This product is classified as a Skin Irritant Category 3, however OSHA does not include Category 3 substances in its hazard classification system.

GHS Label Hazard Statement Codes

Signal Word: WARNING

H316: Causes mild skin irritation

H335: May cause respiratory tract irritation.

GHS Label Precautionary Statement Codes

P261: Avoid breathing dusts or fibers.

P271: Use only outdoors or in well-ventilated area.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332+P313: If skin irritation occurs: Get medical advice/attention.

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

Abbreviations

| | |
|--------------------------|--|
| ACGIH/TLV | American Conference of Industrial Hygienists Threshold Limit Value |
| CAS | Chemical Abstracts Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | US Code of Federal Regulations |
| DOT | US Department of Transportation |
| EPCRA | Emergency Planning and Community Right to Know Act |
| GHS Chemicals | UN Globally Harmonized System of Classification and Labeling of Chemicals |
| HCS | Hazard Communication Standard |
| IARC | International Agency for Research on Cancer |
| ICAO/IATA Association | International Civil Aviation Organization/International Air Transport Association |
| IMO/IMDG Goods Code | International Maritime Organization/International Maritime Dangerous Goods Code |
| LD ₅₀ | Lethal dose to half of test animals |
| NTP | National Toxicology Program |
| OSHA | US Occupational Safety Health Administration |
| PEL | Permissible exposure limit |
| RQ | Reportable quantity |
| SARA | Superfund Amendments and Reauthorization Act |
| SDS | Safety data sheet |
| TSCA | Toxic Substances Control Act |
| UN | United Nations |
| US/USA | United States |

Disclaimer :

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 guidance for safe handling, use, storage, transportation and release and is not considered a warranty or quality specification. The responsibility for the compliance with existing law and regulations lies with the receiver of the product.