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Material Safety Data Sheet (MSDS)

Material Name : GC-900 Fiberglass pipe insulation

Manufacturer / Supplier

GC Insulation Inc
111-13045 84 Ave, Surrey, BC., Canada

Phone Numbers

Customer Service : 604 -543 - 3916
Emergency : 604 -543 - 3916

Physical Description /properties

Appearance : Yellow fibrous material. Rigid pipe insulation with aluminum backed paper facing .
Melting Point : >1300 °C
Boiling Point : >1000 °C
Specific Gravity (H2O=1) : N/A
Flammable Limits : N/A
Flashpoint : N/A
Vapor Pressure: Not Determined
Odor Threshold : Usually odorless but may have faint amine odor
Solubility in water : Negligible

Ingredients Chemical Name:

Fiberglass wool : >95%
Heat Cured Urea Modified Phenol -formaldehyde resin : <5%

Properties : Fiberglass pipe insulation consists of fiberglass fibers. The fibers are made to target diameters of 2.2 - 3.2 microns , Particles and fibers are amorphous (non- crystalline). The resin binds the fiber and particles together and minimize the release of dusts, the final product contains less than 0.1% free formaldehyde and phenol.

Hazchem Code : None allocated

Poisons schedule Number : None Scheduled

Dangerous Goods Class & Subsidiary : None Scheduled

Use : Thermal and acoustic insulation , including energy conservation . Used in homes , public and commercial buildings , warehoused , industrial plants.

Health Effects

Swallowed : Unlikely under normal conditions of use, but would result in irritation of the lips ,stomach And mouth .

Acute : The known health effects of bonded fiberglass during handing , installing or removing are those of Irritation due to exposure to coarse dusts (fibers and particles) greater than 3.2 micron diameter.

Skin : Handling fiberglass and its dust may irritate the skin resulting in itching and occasionally a red rash
The rash is not allergic and usually does not last long.

Eyes: Fiberglass dust may irritate the eyes and cause watering and redness .

Inhaled : Fiberglass dust that arises during handling . Installation or removal may cause irritation of the nose, throat and lungs, especially in those suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

Health Research

Extensive research has found no long term health effects to humans from fiberglass. This research has been carried out for more than twenty years. Whilst fiberglass has not demonstrated any chronic health effect, some old European manufacturing processes have been associated with raised lung cancer mortality . Because of this, fiberglass has been evaluated by the international Agency for research on Cancer as "Group 2B-possibly carcinogenic to humans". Subsequently research has demonstrated that the raised lung cancer mortality was unlikely to have been due to exposure to fiberglass.

Health Hazard Information

Fiberglass once installed is not a source of dust and does not cause any health effects.
Handling, installing or removing the product may result in some fiberglass, but concurrent exposure to other construction materials and general ducts will also be likely. Users of this product are therefore advised to consider the following exposure when handling, installing or removing fiberglass.

First Aid

Skin : Wash thoroughly with soap and running water and , if symptoms persists seek medical attention.

Swallowed : Rinse the lips and mouth with water, drink water, and seek medical attention.

Eyes: Flush with flowing water for at least 15 minutes and if symptoms /irritation persists seek medical attention.

Inhaled : Remove to fresh air.

Flammability

Fiberglass insulation is non-flammable, but the plastic wrapping, resin binder and some facing (e.g., calico) may decompose, smolder or burn in a fire or when heated above 300 degrees Celsius. Avoid a build up of dust and keep all storage and work areas well ventilated.

Fiberglass has a 4 zero fire rating when subjected to early fire hazard tests.

Heat evolved index (rating 0-10)0

Smoke developed index (rating 0-10)0

Spread of flame index (rating 0-10)0

Ignitability index (rating 0-10)0

Safe Handling Information

Fire /Explosion Hazard : Not applicable because fiberglass retards the spread of fire.

Storage and transport : this product should be stored in its factory packaging in low traffic areas, and in intact container or under sheet covers. No special transport requirements are considered necessary.

Smoking and other dust : Inhalation of airborne particles from other sources in the work environment,

including those from cigarette smoke. May increase the risk of the respiratory disease associated with exposure to dust from this product. It is recommended that all work and storage areas be smoke free zones and other airborne contaminants be kept to a minimum.

Spills and disposal : Any spilt material due to accidents or off-cuts from installation should be cleaned up by either immediate bagging, the use of a vacuum cleaner fitted with a HEPA filter, or wet sweeping method. Waste should be placed into containers (e.g. plastic bags) that will not allow the product to become airborne when transported for disposal. The product should be disposed of at an approved landfill site in accordance with local authority guidelines.

Respiratory protection

An approved particulate respirator must be worn during all work in enclosed or poorly ventilated areas such as ceiling spaces, where evidence suggests that respirable fiber levels may exceed the exposure standard or whenever desired.

Respirators must be correctly fitted, maintained in good condition, and kept in clean storage when not in use. Replaceable filters and cartridges must be replaced regularly in accordance with the manufacturer's guidelines.

Adequate washing facilities should be available on site to wash, and to treat both skin and eye irritation. General hand washing facilities should be kept free of fibers and / or dust as far as workable.

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