

DATE PREPARED: October 26, 2015

SUPERSEDES: July 16, 2012

SECTION 1 CHEMICAL AND COMPANY IDENTIFICATION

PRODUCT NAME: **Thomson GS-500**

COMPANY NAME: **A.R. Thomson Group**

ADDRESS: 10030 - 31ST AVENUE, EDMONTON, AB T6N 1G4

PHONE NUMBER: (780) 450-8080 FAX (780) 463-2021

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a proprietary Lattice® Braided Packing braided from yarns that consists of a glass filament core with an organic fiber jacket. Prior to braiding the yarn is impregnated with petrolatum and a synthetic wax. The braid is coated with graphite.

Excessive levels of some constituents can cause lung and respiratory tract disorders, including irritation, pneumoconiosis, and cancer. These effects generally occur as a result of long term (months, years) exposures to high dust levels. Maintain dust concentrations at low levels.

PRODUCT CONSTITUENTS LISTED AS CARCINOGENS

- Fiber Glass Continuous Filament: IARC Group 3 – Not classifiable with respect to human carcinogenicity.
- Silica, Crystalline: IARC Group 1-Sufficient evidence of carcinogenicity in humans, also identified by NTP as a carcinogen.

SECTION 2 HAZARDS IDENTIFICATION (Continued from page 1)**POTENTIAL HEALTH EFFECTS**

Primary Routes of Entry:	Inhalation of dusts. Dermal and ocular contact.
Acute Effects Of Overexposure:	High concentrations of dusts may be irritating to the eyes, skin, mucous membranes and respiratory tract. Skin contact may produce reddening of the skin and itching.
Chronic Effects Of Overexposure:	Inhalation of high concentrations of dusts over prolonged periods of time may cause pneumoconiosis (a fibrotic disease in the lung tissue), silicosis which can be progressive, disabling, and may lead to death; and lung cancer.
Conditions Aggravated by Exposure:	Pre-existing pulmonary disorders may possibly be aggravated by prolonged exposures to high concentrations of dusts.

SECTION 3 COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

COMPONENT NAME	CAS NUMBER	% WT. (Optional)
Graphite	7727-42-5	
Fibrous Glass	7440-66-6	
Silica, Crystalline	14808-60-7	< 2

SECTION 4 FIRST AID MEASURES

Eyes:	Flush the eyes with water for at least 15 minutes. Seek medical attention if irritation develops or persists.
Skin:	Wash contaminated skin thoroughly with soap or a mild detergent. Get medical attention if irritation persists. Dermatitis should be treated symptomatically by a physician.
Ingestion:	No specific intervention is indicated as product is not likely to be hazardous by ingestion. Consult a physician if necessary.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Upper Flammable Limit (UFL):

Lower Flammable Limit (LFL):

Autoignition Temperature:

Method: Not Applicable

Not Applicable

Not Applicable

Not Determined

Hazardous Products of Combustion

Composition of by-products from the result of a fire or thermal decomposition will vary depending on the specific conditions. Hazardous gases/vapors possibly evolved include smoke, acrylonitrile monomer, hydrogen cyanide and carbon monoxide. There may be others unknown to us.

Fire fighting Instructions

As in any fire, use a self-contained breathing apparatus (SCBA) in the pressure-demand mode in conjunction with suitable gloves and clothing.

Extinguishing Media

Water, carbon dioxide, foam, or dry chemical. Be sure to use fire extinguisher appropriate to surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released or Spilled

No special actions are required for relatively large pieces or fragments. Prompt clean up is recommended. Personnel involved in the clean up should be wearing appropriate personal protective equipment as outlined in section 8. Material should be placed in DOT approved containers for disposal.

SECTION 7 HANDLING AND STORAGE

Handling

Dust generated from this material must be managed by wet wiping or vacuuming with HEPA filtration equipped vacuum cleaners. Do not dry sweep or blow dust with compressed air. Graphite dusts are electrically conductive. Accumulations of dusts may cause shorting of electrical circuits and switches that may be affected. Dust should not be emitted to the atmosphere where they may settle on and cause shorting of outside electrical equipment. Personnel involved with handling this product should be wearing appropriate personal protective equipment as outlined in section 8.

Storage

Store in labeled closed containers and away from heat, spark, open flames & other sources of ignition. Do not store with or near incompatible materials cited in section 10.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**ENGINEERING CONTROLS****Ventilation:**

If dust levels exceed the occupational exposure limits, then use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels to below recommended exposure limits. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer. Maintain and test ventilation systems in accordance with OSHA regulations (29CFR 1910.94).

PERSONAL PROTECTIVE EQUIPMENT**Eyes and Face:**

As generally good practice, safety glasses with side shields are recommended when handling this product to prevent eye contact with particulate matter.

Skin:

Protective gloves are recommended to prevent irritation during handling.

Respiratory:

Exposure levels that exceed PEL/TLV limits are unlikely. If exposures exceed the limits cited in this section by less than a factor of 10, use a NIOSH approved N95 respirator. If exposures exceed 10 times this limit, consult a professional industrial hygienist or your respiratory protective equipment supplier for selection of the proper equipment. The evaluation of the need for respiratory protection should be determined by a professional industrial hygienist.

EXPOSURE GUIDELINES

Component	(8 Hr. TWA) OSHA PEL	(8 Hr. TWA) ACGIH TLV
Graphite Fibrous Glass	2.0 mg/m ³ (respirable dust)	2.0 mg/m ³ (respirable dust)
Nonrespirable fibers and Particulate	15.0 mg/m ³ (total dust)	5.0 mg/m ³ (respirable fraction)
Respirable Particulate	5.0 mg/m ³ (respirable dust)	3.0 mg/m ³ (PNOC)
Respirable particulate with fiber like dimensions (glass shards)	None Established	1 fiber/cc (respirable)
Silica, Crystalline (Quartz)	10 mg/m ³ / %SiO ₂ + 2 (resp) 30 mg/m ³ / %SiO ₂ + 2 (total)	0.1 mg/m ³ (resp)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black Lattice Braided Packing or Rings	Boiling Point:	Not Applicable
Odor:	Faint hydrocarbon odor	Freezing Point:	Not Applicable
VOC Content:	Not Applicable	Melting Point:	Not Applicable
pH:	Not Applicable	Solubility In Water:	Negligible
Vapor Pressure:	Not Applicable	Specific Gravity:	Not determined
Vapor Density:	Not Applicable	Reactivity with Water:	Non Reactive

SECTION 10 STABILITY AND REACTIVITY

Stability: The material is stable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to avoid: Direct flame will ignite product.

Materials to avoid: Strong oxidizing materials.

Hazardous Decomposition Products

Composition of by-products from the result of a fire or thermal decomposition will vary depending on the specific conditions. Hazardous gases/vapors possibly evolved include smoke, acrylonitrile monomer, hydrogen cyanide and carbon monoxide. There may be others unknown to us.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity data is available on the individual components. Call 315/597-3080 for information.

SECTION 12 ECOLOGICAL INFORMATION

Bioaccumulation is not expected, as product is insoluble in water.

SECTION 13 DISPOSAL INFORMATION

Dispose of in accordance with local, state, and federal regulations. Land fill is normally recommended.

SECTION 14 TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Regulated

SECTION 15 REGULATORY INFORMATION

Warning, this product contains a mineral known to the state of California to cause cancer (silica, crystalline).

SECTION 16 OTHER INFORMATION

This MSDS is prepared to safeguard the health of workers and to comply with the requirements of 29CFR 1910.1200. Consult your employer before working with this material.

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.

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