

DATE PREPARED: October 26, 2015

SUPERSEDES: July 16, 2012

SECTION 1 CHEMICAL AND COMPANY IDENTIFICATION

PRODUCT NAME: **Thomson FlushPak**

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 braided packing product is braided from yarns consisting chiefly of flexible graphite foil and graphite filament yarns.

Graphite and Silica dusts may be harmful if inhaled or if contact is made with eyes or skin.

PRODUCT CONSTITUENTS LISTED AS CARCINOGENS

□ Silica, Crystalline: IARC Group 1-sufficient evidence of carcinogenicity in humans, also identified by NTP as a carcinogen.

POTENTIAL HEALTH EFFECTS

Primary Routes of Entry: Inhalation of dusts. Dermal and ocular contact.

Acute Effects Of Overexposure: High concentrations of graphite dusts may be irritating to the eyes, skin, mucous membranes and respiratory tract.

Chronic Effects Of Overexposure: Inhalation of high concentrations of dusts over prolonged periods of time may cause pneumoconiosis, silicosis, pulmonary fibrosis or emphysema. Symptoms can include cough, shortness of breath and decrease in pulmonary function.

Conditions Aggravated by Exposure:

Pre-existing pulmonary disorders may possibly be aggravated by prolonged exposures to high concentrations of graphite dusts.

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS NUMBER	% WT. (Optional)
Graphite	7782-42-5	
Crystalline Silica	14808-60-7 (Quartz)	< 0.5
	14464-46-1 (Cristobalite)	
	15468-32-3 (Tridymite)	

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: Give large quantities of water. Consult a physician.

Inhalation: Dust: No adverse effects are anticipated by breathing small amounts during normal and intended use. If exposed to high dust levels, then remove to fresh air. Drink water and clear throat. Blow nose to clear dust.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Not Applicable	Method: Not Applicable
Upper Flammable Limit (UFL):	Not Applicable
Lower Flammable Limit (LFL):	Not Applicable
Autoignition Temperature:	Not Determined

Hazardous Products of Combustion

Composition of by-products from the result of a fire will vary depending on the specific conditions. Hazardous gases/vapors include dense smoke 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 labelled 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 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	OSHA PEL (8 Hr. TWA)	ACGIH TLV (8 Hr. TWA)
Graphite	15 mppfc respirable fraction	2.0 mg/m ³ (respirable dust)
Quartz	10.0 mg/m ³ / (%SiO ₂ +2) see 29CFR 1910.1000 Table Z-3	0.1 mg/m ³ (respirable dust)
Crystobalite	Use ½ of value calculated from the count of mass formulae for quartz.	0.05 mg/m ³ (respirable dust)
Tridymite	Use ½ of value calculated from the count of mass formulae for quartz.	0.05 mg/m ³ (respirable dust)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray black braided packing.

Odor: Slight Hydrocarbon

% Volatile by: Not Volatile

Volume:

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

Reactivity with Water: Non Reactive

Boiling Point: Not Applicable

Freezing Point: Not Applicable

Solubility In Water: Negligible

Specific Gravity: Not Determined
(H₂O = 1)

SECTION 10 STABILITY AND REACTIVITY

Stability: The material is stable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to avoid: Open flame.

Materials to avoid: Strong oxidizing materials.

Hazardous Decomposition Products

Composition of by-products from the result of a fire will vary depending on the specific conditions. Hazardous gases/vapors include dense smoke and carbon monoxide. There may be others unknown to us.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity data is available on the individual components. Call (780) 450-8080 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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