

DATE PREPARED: October 26, 2015

SUPERSEDES: July 16, 2012

SECTION 1 CHEMICAL AND COMPANY IDENTIFICATION

PRODUCT NAME: **Thomson PC-87**

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 packing product consists of lattice braided yarns, composed of expanded polytetrafluoroethylene, graphite and silicone oil; with polytetrafluoroethylene impregnated para-aramid yarns in the corners.

Heating PTFE to temperatures in excess of 260° C can evolve toxic fluorine compounds. Additional information concerning PTFE is available in the "Guide to the Safe Handling of Fluoropolymer Resins" published by the Fluoropolymers Division of the Society of the Plastics Industry, Inc.

Polydimethylsiloxane component may generate formaldehyde when heated above 150°C in air.

PRODUCT CONSTITUENTS LISTED AS CARCINOGENS	IARC	OSHA	NTP
None Known			

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. If exposed to thermal decomposition of polytetrafluoroethylene, temporary symptoms of polymer fume fever (chills, fever, cough and malaise).

Chronic Effects of Overexposure:

Inhalation of high concentrations of graphite dusts over prolonged periods of time may cause pneumoconiosis. 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. Individuals with such disorders also may have susceptibility to the toxicity of excessive exposures from polytetrafluoroethylene decomposition products.

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

CAS NUMBER	CAS NUMBER	% WT. (Optional)
Graphite	7727-42-5	
Polytetrafluoroethylene	9002-84-0	
Mono (p-nonylphenyl) ether	26027-38-3	<2
Poly(terephthaloylchloride-p-phenylene diamine)	26125-61-1	
Polydimethylsiloxane	63148-62-9	

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.

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, carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen cyanide, carbonyl fluoride, and perfluorocarbon olefins. 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	2.0 mg/m ³ (respirable dust)	2.0 mg/m ³ (respirable dust)
Poly(terephthaloylchloride-p-phenylene diamine)	None Established	None Established
Polytetrafluoroethylene	None Established	None Established
Mono (p-nonylphenyl) ether	None Established	None Established
Polydimethylsiloxane	None Established	None Established

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black lattice braided packing with yellow corners.	Boiling Point:	Not Applicable
Odor:	Slight odor	Freezing Point:	Not Applicable
VOC Content:	Not Applicable	Melting Point:	327-342C (621-648F) - PTFE
pH:	Not Applicable	Solubility In Water:	< 2%
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: 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, carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen cyanide, carbonyl fluoride, and perfluorocarbon olefins. 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

No ecological information is available on this product.

SECTION 13 DISPOSAL INFORMATION

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

SECTION 14 TRANSPORTATION INFORMATION

DOT - Not Regulated

SECTION 15 REGULATORY INFORMATION

Warning, this product contains the following materials known to the state of California to cause cancer or reproductive effects: **None Known**

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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