

DATE PREPARED: October 26, 2015

SUPERSEDES: July 16, 2012

SECTION 1 CHEMICAL AND COMPANY IDENTIFICATION

PRODUCT NAME: **Thomson CHEM-ONE**

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 COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

COMPONENT NAME	CAS NUMBER	% WT. (Optional)
Polytetrafluoroethylene (PTFE)	9002-84-0	
Surfactant	60828-78-6	
Ammonium Perfluorooctanate (APFO)	3825-26-1	< 25 ppm
Tridecyl Alcohol Ethoxylate	24938-91-8	
PAN Based Carbon Fiber	7740-44-0	
Novoloid Fiber	Not Assigned	
White Petrolatum	8009-03-8	

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This packing product is a Lattice braid of PAN based carbon and Novoloid fibers, impregnated with Polytetrafluoroethylene (PTFE) dispersion; with a Petrolatum break in lubricant.

Heating product to temperatures in excess of 325°C can evolve toxic fluorine compounds.

Maintain dust concentrations at low levels.

PRODUCT CONSTITUENTS LISTED AS CARCINOGENS

Ammonium Pefluorooctanate. Classified by the ACGIH as a A3 carcinogen. (Carcinogenic in animals at relatively high doses).

IARC

No

OSHA

No

NTP

No

Potential Health Effects

Potential Health Effects:

Under normal and intended use conditions it is not anticipated that dust levels sufficient to cause symptoms or adverse health effects will be produced.

Primary Routes of Entry:

Inhalation of dusts or fumes from thermal decomposition. Dermal and ocular contact.

Target Organs:

Prolonged and repeated overexposure to high concentrations of dust may cause pulmonary disorders. Toxicity studies in animals with APFO have shown evidence of liver effects, developmental effects and decreased body weight as well as tumors in the pancreas, testes and mammary glands. The significance and relevance to humans is under investigation by the EPA.

Acute Effects of Overexposure:

High concentrations of dusts may be irritating to the eyes, skin, mucous membranes and respiratory tract. If exposed to thermal decomposition products of the Polytetrafluoroethylene, temporary symptoms of polymer fume fever (chills, fever, cough and malaise).

Chronic Effects of Overexposure:

Pulmonary disorders can result when exposed to prolonged and repeated elevated dust levels.

Conditions Aggravated by Exposure:

Individuals with pre-existing respiratory and lung diseases may have increased susceptibility to the toxicity of excessive exposure to decomposition products.

SECTION 4 FIRST AID MEASURES

Eyes: Flush the eyes with water for at least 15 minutes. Do not rub eyes. Get medical attention if necessary.

Skin: Wash contaminated skin thoroughly with soap or mild detergent. Get medical attention if irritation persists. Dermatitis should be treated symptomatically by a physician.

Ingestion: Consult a physician.

Inhalation: 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. If exposed to fumes from overheating or combustion, move to fresh air. Consult physician if symptoms persist.

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 include smoke, formaldehyde, phenol, hydrogen fluoride, carbonyl fluoride, perfluorocarbon olefins, 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

Shovel or sweep up. Material should be placed in DOT approved containers for disposal.

SECTION 7 HANDLING AND STORAGE

Handling

- Decomposition products may be toxic.
- 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.
- 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.
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Work / Hygienic Practices

Personnel should avoid contaminating cigarettes or tobacco with particles of PFFE.

Storage

Store in labelled closed containers and away 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: No special requirements for normal conditions of use.

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: Use of impervious gloves is recommended.

Respiratory: No special requirements under normal conditions of use.

EXPOSURE GUIDELINES

Component	(8 Hr. TWA) OSHA PEL	(8 Hr. TWA) ACGIH TLV
Polytetrafluoroethylene	None Established	None Established
Ammonium Perfluorooctanate	None Established	0.1 mg/m ³ (Skin)
Novoloid Fiber	None Established	None Established
Surfactant	None Established	None Established
Proprietary Surfactant	None Established	None Established
PAN Based Carbon Fiber	15.0 mg/m ³ (Total)	10.0 mg/m ³ (Total)
	5.0 mg/m ³ (Respirable)	3.0 mg/m ³ (Respirable)
White Petrolatum	None Established	None Established

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black lattice braid with brown corners and white coating.	Boiling Point:	Not Applicable
Odor:	Slight odor	Freezing Point:	Not Applicable
VOC Content:	Not Applicable	Melting Point:	Not Applicable
pH:	Not Applicable	Solubility In Water:	Contains small quantity of residual water soluble surfactant
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:

Incompatible or can react with finely divided metal powders (e.g. aluminum and magnesium), molten alkali metals, strong oxidizers, acids and strong alkali. Contact with incompatibles can cause fire or explosion.

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 include smoke, formaldehyde, phenol, hydrogen fluoride, carbonyl fluoride, perfluorocarbon olefins, 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

None available for 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

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, birth defects or reproductive harm.

- Tetrafluoroethylene
- Dioxane (< 0.5 ppm)
- Ethylene Oxide (< 2 ppm)
- Acetaldehyde (< 1 ppm)
- Formaldehyde (< 0.5 ppm)

States such as Pennsylvania, New Jersey, Vermont, Massachusetts, and Rhode Island may also have specific requirements relative to component in this product; consult specific state regulatory requirements for additional information.

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 a 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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