



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	"Pro-Cell" Gold cellulose fibre insulation for walls (Type 2)		
	Thermo-Cell Industries Ltd.		
	123 Clement Road Vars, Ontario, Canada K0A 3H0 (613) 443-5100	1822 Plains Road Debert, Nova Scotia, Canada B0M 1G0 (902) 662-3600	
Manufacturer's Information	Emergency Phone # (800) 267-1433 8am – 5pm EST Mon – Fri.		
Product Description & Use	Cellulose fibre insulation is a non-hazardous, natural material composed of recycled newspapers and treated with fire retardant chemicals (it does not contain asbestos or glass fibre). It is a residential/commercial thermal and acoustical insulation.		
Date of MSDS Preparation	April 2011		

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Registry Number	% in Product	LD50	LDLo	LC50	TLV-TWA	PEL
Boric Acid	10043-35-3	5-10 w/w	2660 mg/kg oral - rat	200 mg/kg oral - woman	Not Available	10 mg/m ³	15 mg/m ³ Total Dust
Borax	12179-04-3	5-10 w/w	3300 mg/kg oral - rat	Not Available	> 2.0 g/m ³ inhalation - rat	1 mg/m ³	10 mg/m ³ Total Dust
Boric Acid and Sodium Tetraborate Pentahydrate (Borax) are categorized under WHMIS as Class D-2A.							

SECTION 3 - HAZARDS IDENTIFICATION

Relevant Routes of Exposure	Eye contact, skin contact, inhalation and ingestion	
	Eye Slight irritation	
	Skin Slight irritation	
Adverse potential health effects	Inhalation	Slight irritation to upper respiratory tract (coughing, sneezing)
from exposure to product or ingredients	Ingestion	Nausea, vomiting, diarrhea
This product is listed/regulated by OSHA and ACGIH as a "nuisance dust".		

SECTION 4 - FIRST AID MEASURES

Eyes	Flush eyes with copious amounts of warm water.
Skin	Wash skin with soap and water. If skin is broken, flush area with warm water.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth and drink plenty of water. Induce vomiting if large amounts have been ingested.
Note to physician	Exposure to dust may aggravate symptoms of persons with pre-existing respiratory conditions.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point and method	Not Applicable
Upper and lower flammable (explosive) limits in air	Not Applicable
Auto-ignition temperature	270°C (dry condition)
Hazardous combustion products	Primarily CO and CO ₂ .
Conditions under which flammability could occur	Extreme heat and open flame for sustained periods.
Extinguishing media	Foam, water, CO ₂ and dry chemical.
Sensitivity to explosion by mechanical impact	None
Sensitivity to explosion by static discharge	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for dealing with a release or spill	Sweep and/or vacuum up material.
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SECTION 7 - HANDLING AND STORAGE

Handling practices and equipment	Use care to minimize dust in surrounding airspace.
Appropriate storage practices & requirements	Store in a cool, dry, well-ventilated area away from sources of heat and open flame.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Applicable control measures, including engineering controls	Provide adequate local ventilation.	
	Eyes - Safety goggles	
	Skin - Cotton work gloves	
Personal protective equipment for each exposure route	Respiratory - Nuisance dust mask (NIOSH approved 3M 8210 N95 particulate or equivalent).	

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance	Loose, fibrous, grey material
Odour	None
Physical State	Solid
рН	6.8 to 7.4
Vapour Pressure and Reference Temperature	Not Applicable
Vapour Density	Not Applicable
Boiling Point	Not Applicable
Freezing/Melting Point	Not Applicable
Specific Gravity or Density	Not Applicable
Evaporation Rate	Not Applicable
Partition Coefficient	Not Applicable
Odour Threshold	Not Applicable
Viscosity	Not Applicable
Solubility in Water	Material is not soluble; it will absorb water.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	Contamination from oils, fuels and other combustible materials
Incompatibility with other materials	Strong alkali, acids, oxidizers, peroxides, metal chlorates & hydrides
Hazardous Decomposition Products	Not Available
Hazardous Polymerization	Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Short-term (Acute) Exposure	See Section 3	
Effects of Long-term (Chronic) Exposure None known		
Irritancy	May cause slight irritation	
Sensitization	May be allergenic to some	
Carcinogenicity / Teratogenicity / Mutagenicity	Mutagenicity Not listed by IARC, ACGIH, NTP or OSHA	
Name of Toxicologically Synergistic Products	None	
Exposure Limits	TLV = 10 mg/m ³ TWA	PEL = 15 mg/m ³ Total Dust
Toxicity	LD50 > 5 g/kg oral (rat)	LC50 > 5800 mg/m ³ /4H inhalation (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Borates are practically non-toxic to fish, aquatic invertebrates and birds. Borates have a low bioaccumulation potential.

SECTION 13 - DISPOSAL INFORMATION

Waste Disposal	Bag and remove according to local regulations.

SECTION 14 - TRANSPORT INFORMATION

Shipping Information such as Shipping Classification	TDG Shipping code: Non-hazardous
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SECTION 15 - REGULATORY INFORMATION

Cellulose insulation is listed as a "restricted" product under the Hazardous Products Act (Canada). It is considered "non-hazardous" under the Hazard Communication Standard 29 CFR 1910.1200 (US).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (Canada) and the MSDS contains all of the information required by the Controlled Products Regulations.

SECTION 16 - OTHER INFORMATION

The information presented in this MSDS was obtained from sources believed to be true and accurate and up-to-date. Thermo-Cell Industries Ltd provides no warranties whether expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein.