

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER

Cylatec, Inc.
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EMERGENCY TELEPHONE

(330) 492-2854

PRODUCT IDENTIFIER: CYLATHERM

PRODUCT DESCRIPTION: Mixture of non-fiber forms of sodium and magnesium silicates, sodium borate, and chemically bound water.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances listed below are reportable hazardous ingredients as defined by the OSHA Hazard Communication Standard. Exposure limits, when available, are also listed.

Additional compositional data are provided in Section 15, REGULATORY INFORMATION, subject to supplier notification requirements.

CAS NUMBER	OSHA	UNITS	ACGIH	UNITS
CHEMICAL NAME				
14807-96-6				
		Talc (containing no asbestos fibers) (respirable fraction)		
	2	mg/m ³ TWA	2	mg/m ³ TWA
1303-96-4				
		Sodium borate, decahydrate	1	mg/m ³ TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Granular Solid with no odor. Dust not expected to create an explosion hazard. Product is not flammable.

POTENTIAL HEALTH EFFECTS

EYE: Product may cause severe irritation.
SKIN: Product may cause skin irritation.
INGESTION: Not acutely toxic.
INHALATION: May be irritating to the respiratory tract.
CHRONIC/CARCINOGENICITY
NTP: Not Tested
OSHA: Not Regulated
IARC: Class 3, not classifiable.

PROCESSING HEALTH EFFECTS: At temperatures of 275°F (135°C) and above, this product generates steam (water vapor) which can cause severe burns.

Thermal decomposition of the substrate in which this material is incorporated may cause irritation to the eyes, skin and respiratory tract as well as other serious health hazards. See MSDS relating to the substrate for details.

MEDICAL RESTRICTIONS: There are no known human health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to dust or components in the thermal decomposition products of the substrate.

4. FIRST AID MEASURES

EYES: Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. Seek medical attention.
SKIN: Wash skin thoroughly with soap and water. Seek medical attention if rash or burn occurs.
INGESTION: If inhaled, move victim to fresh air. If breathing becomes impaired, immediately seek medical attention.

5. FIRE FIGHTING MEASURES

FIRE FIGHTING:	This material is not flammable and will not support combustion. Approved pressure demand breathing apparatus and protective clothing should be used for all fires.
EXTINGUISHING MEDIA:	This material is not flammable and will not support combustion. Use extinguishing media which is appropriate for the surrounding fire.
FLASH POINT:	Not Applicable
LOWER FLAMMABLE LIMIT:	Not Applicable
UPPER FLAMMABLE LIMIT:	Not Applicable
AUTO IGNITION:	Not Applicable
CONDITIONS OF FLAMMABILITY:	This material is not flammable
EXPLOSION DATA	
IMPACT SENSITIVITY:	Not sensitive to mechanical impact.
STATIC DISCHARGE:	Not expected to be sensitive to static discharge.

6. ACCIDENTAL RELEASE MEASURES

GENERAL: Sweep up material and place in proper container for disposal or recovery.
(See DISPOSAL INFORMATION)

7. HANDLING AND STORAGE

HANDLING: Follow recommendations on label and in technical literature. Avoid inhalation of dust and contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation.

STORAGE: Avoid storage near foods to prevent food contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. For powders and residual dusts refer to HANDLING AND STORAGE section.

Ventilation requirements must be locally determined to limit exposure to processing fumes in the workplace. Design techniques and guidelines may be found in publications such as:

Industrial Ventilation; available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48901.

PERSONAL PROTECTION

EYE/FACE: Wear safety glasses with side shields or chemical goggles.

SKIN: When handling product avoid contact with skin. When processing product, wear long pants, long sleeves, gloves and face shield when applicable. Use appropriate protective clothing, including chemical resistant gloves.

RESPIRATORY: When processing fumes are not adequately controlled, use respirator approved for protection from organic vapors and acid gases. When dust is not adequately controlled use respirator approved for protection from dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
ODOR AND APPEARANCE:	Granular powder with no odor.
BOILING POINT:	Not Applicable
MELTING POINT:	Approximately 1200°F (649°C)
VAPOR PRESSURE (mmHg):	Not Applicable
VENDOR DENSITY (air=1):	Not Applicable
SPECIFIC GRAVITY (water=1):	0.8-1.0 g/cc
WATER SOLUBILITY:	Partial
% VOLATILES:	13-22% (water)
pH:	10.4-11.3 (1% in water)
ODOR THRESHOLD:	Not Established
EVAPORATION RATE:	Not Applicable
COEFFICIENT WATER/OIL DISTR:	Not Established

10. STABILITY AND REACTIVITY

STABILITY:	Stable under recommended conditions of storage and handling. Exposure to temperatures in excess of 275°F (135°C) will cause the release of hot water vapor.
REACTIVITY:	Not reactive under recommended conditions of handling, storage, processing and use.
CONDITIONS TO AVOID:	See EXPOSURE CONTROLS/PERSONAL PROTECTION section for respiratory protection advice.
HAZARDOUS DECOMPOSITION:	Substrate decomposition fumes evolved during thermal decomposition of this material and the substrate will contain water from this material and other compounds which are present in the thermal decomposition products of the substrate.

11. TOXICOLOGICAL INFORMATION

PRODUCT:	
EYE:	Severe eye irritant.
SKIN:	Severe skin irritant.
ACUTE ORAL:	Oral LD50 (rat) approx. 4.0 g/kg.
ACUTE INHALATION:	Severe mucous membrane irritant. Prolonged or repeated exposure to the talc in this product has been shown to produce talc pneumoconiosis.

12. ECOLOGICAL INFORMATION

GENERAL:	Not expected to present any significant ecological problems.
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13. DISPOSAL INFORMATION

RCRA HAZARDOUS WASTES:	Product is not a RCRA hazardous waste.
WASTE DISPOSAL:	Recycling is encouraged. Landfill or incinerate in accordance with federal state and local requirements.

 14. TRANSPORTATION INFORMATION

DOT HAZARD CLASS: Not Regulated
 PROPER SHIPPING NAME: Not Regulated
 IDENTIFICATION NUMBER: Not Listed
 TDGA: Not Listed

 15. REGULATORY INFORMATION

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present, represent average values.

CAS NUMBER	EPCRA 313	WHMIS	NPRI	CA-65	FL	RI
CHEMICAL NAME	%	%	%	%		
14807-96-6						
Talc (containing no asbestos fibers)					X	X
1303-96-4						
Sodium Borate, decahydrate						X

TSCA STATUS: This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act (TSCA).

WHMIS CLASSIFICATION: Not a controlled product.

 16. OTHER

PREPARED BY: Product Compliance

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use additional safety precautions may be required. Cylatec, Inc. makes no warranty, either express or implied, including merchantability and fitness.

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

ABBREVIATIONS:

ACGIH: American Conference of Governmental Industrial Hygienists
 CA-65: California Proposition 65 (Safe Drinking Water & Toxic Enforcement Act)
 CAS #: Chemical Abstracts Service Number.
 EPCRA 313: Emergency Planning and Community Right-To-Know Act, Section 313.
 FL: Florida Right-To-Know Law, Substance List
 OSHA: The Occupational Safety and Health Administration.
 NPRI: The Canadian National Pollutant Release Inventory.
 RCRA: Resource Conservation and Recovery Act.
 RI: Rhode Island Right-To-Know Law, Hazardous Substance List.
 WHMIS: Canadian Workplace Hazardous Materials Information System

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