

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Solupor® Membrane Media

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Product Use: Filtration Applications

Date of Last Revision: November 30, 2009

SECTION 2 HAZARDS IDENTIFICATION

White, odorless solid.

Emergency Overview: Warning! May form combustible dust concentrations in air during processing. Product dust or shreds may be irritating to eyes and respiratory system. Molten material will cause thermal burns.

US OSHA Hazard Classification: Not Hazardous

EU Preparation Classification (1999/45/EC): Manufactured Article (Dust generated from processing – Not a dangerous preparation)

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Polyethylene Film	9002-88-4	100	Not classified as dangerous

Refer to Section 16 for Full Text of EU Classes and R Phrases

SECTION 4 FIRST AID MEASURES

Eye Contact: Do not rub your eyes. Particles may cause abrasive eye injury. Flush eyes with water, holding the eyelids apart for several minutes. Get medical attention if irritation persists.

Skin Contact: None normally required. If molten product contact the skin, cool as quickly as possible using cold water. Never pull product adhering from the skin. Get medical attention promptly for treatment of burns.

Ingestion: None normally required. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

Inhalation: In fumes from molten product are inhaled, move victim to fresh air and get medical attention. If dust or shards are inhaled, drink water to clear throat and blow nose to remove dust. Get medical attention if irritation persists.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: Use water, water fog, carbon dioxide, foam or dry chemical.

Firefighting Procedures: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus for all fires involving chemical products.

Unusual Fire/Explosion Hazards: Hot vapors from product may be highly flammable. Dust generated in cutting or other processing of this material may present a potential fire and explosion hazard if suspended in air at high concentrations. Settled dust presents a fire hazard. Resuspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust.

Hazardous Products of Combustion: Combustion may generate oxides of carbon and acids, ketones, aldehydes and hydrocarbons.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Wear appropriate protective clothing and equipment (see section 8). Pick up material and place into a container for disposal. If dust is present, wet down and collect in a manner to minimize the generation of airborne dusts or vacuum with a high efficiency vacuum cleaner. . If a vacuum is used, explosion proof equipment is required. Nonsparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.). Film and sherds are very slippery. Clean up promptly to eliminate slipping hazard.

Personal Precautions: Avoid inhalation of sherds or dust.

Environmental Precautions: None known.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid creating and breathing sherds or dusts. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Do not eat, drink or smoke when using this material. Launder contaminated clothing before re-use. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust. Keep dust and sherds away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust and from slippery film and sherds that may cause falling. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Due to the electrostatic properties of this material, grounding all handling equipment is recommended. Buildup of static charge can result in static sparks which can ignite flammable vapors and dusts in the work area.

Empty containers retain product residues and can be hazardous. Follow all MSDS precautions when handling empty containers.

Storage: Store in a dry, well ventilated area out of direct sunlight. Keep product away from high temperature and humidity.

SECTION 8 EXPOSURE CONTROLE/PERSONAL PROTECTION

Occupational Exposure Limits:

Polyethylene Film (as PNOC)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust) TWA OSHA PEL
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Note: If not listed above, refer to local regulations for specific country exposure limits

Engineering Controls: Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation where product is cut or processed in a manner that generates dust or heated to produce fumes. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal Protective Equipment:

Eye Protection: Follow facility requirements. Wear safety glasses with side shields or dust proof goggles if processing generates dust or fumes.

Skin Protection: Heat resistant gloves are required when handling hot material.

Respiratory Protection: If the occupational exposure limits are exceeded or irritation is experienced, wear an approved particulate respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use in accordance with all applicable regulations and good Industrial Hygiene practice.

Other Protective Clothing or Equipment: Follow facility requirements. Washing facilities should be available in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White odorless solid.

Decomposition Temp: >300°C	Melting Point: 125-150°C
VOC Content: Not applicable	Specific Gravity: 100-600 mg/cm ³
Solubility in Water: Insoluble	pH: Not applicable
Vapor Pressure (mmHg): Not applicable	Vapor Density: Not applicable
Evaporation Rate: Not applicable	Viscosity: Not applicable
% Volatile by Volume: 0%	Flashpoint: >370°C
Flammable Limits in Air: Not applicable	Autoignition Temperature: >370°C

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid dust formation. Do not heat above 300°C. Do not expose to temperature above 30°C for prolonged periods. Do not expose to UV light.

Incompatibility with Other Materials: Avoid strong oxidizers.

Hazardous Decomposition Products: Thermal decomposition of polymers will generate oxides of carbon, acids, ketone, aldehydes and hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Dust or shreds may cause mechanical irritation and possible injury.

Skin: None known at ambient temperatures. Contact with hot polymer will cause thermal burns.

Ingestion: None known.

Inhalation: Dust or shreds may cause nose, throat and upper respiratory tract irritation. Fumes from heated product may cause severe respiratory irritation.

Chronic Health Effects: None known.

Carcinogenicity: None of the components is classified as a carcinogen by IARC, NTP, ACGIH, OSHA or the EU Dangerous Substances Directive.

Medical Conditions Aggravated by Exposure: None known.

Acute Toxicity Data: No specific data is available

SECTION 12 ECOLOGICAL INFORMATION

No data available. This material is not expected to be toxic to plants or aquatic organisms.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with national and local regulations.

SECTION 14 TRANSPORT INFORMATION

This material is not regulated as a hazardous material or dangerous good by US DOT, IMDG, IATA/ICAO, ADR/RID or TDG.

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: This product is a manufactured article and not subject to reporting.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

US Toxic Substances Control Act Inventory (TSCA): This product is an article and not subject to TSCA.

U.S. STATE REGULATIONS

California Proposition 65: This product is not known to contain regulated chemicals:

INTERNATIONAL REGULATIONS:

EU Labeling: Finished product is an article and no labelling is required.

EU Chemical Inventory (EINECS)/REACH: This product is considered an article under EINECS and REACH.

RoHS (Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations): This product is RoHS compliant.

Australian Inventory of Chemical Substances: This product is an article and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is an article and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is an article and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is an article and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is an article and not subject to chemical notification requirements.

Canadian CEPA New Chemical Notification: This product is an article and not subject to new chemical notification.

Canadian WHMIS: Not a controlled product.

New Zealand: This product is an article and not subject to new chemical notification.

SECTION 16 OTHER INFORMATION

Revision Date: November 30, 2009

Revision Note: Sections 2, 6, 7, 8, 16 (added OSHA recommended Combustible Dust warning information.)

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and handling of Combustible Particulate Solids, for safe handling.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

None

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.