

SAFETY DATA SHEET

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

Product Name: LydAir[®] MG Filtration Media with Anti-Microbial Protection (All grades are listed at the end of the MSDS)

Manufacturer: Lydall - Rochester
 P.O. Box 1960
 Rochester, NH 03866
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Product Use: Air Filtration Applications

Date of Last Revision: July 11, 2009

SECTION 2 HAZARDS IDENTIFICATION

White, bonded fibrous glass web, odorless.

Emergency Overview: Product dust may be irritating to eyes, skin and respiratory system. Repeated skin contact may cause allergic skin reaction (sensitization). May be harmful if inhaled. Prolonged inhalation of respirable glass wool fibers is suspected to cause cancer. High concentrations of dust may present a fire or explosion hazard. May be toxic to the aquatic environment due to the presence of antimicrobial agents.

US OSHA Hazard Classification: Manufactured Article (Dust generated from processing - Hazardous (carcinogen, irritant, sensitizer, toxic, exposure limit)

EU Preparation Classification (1999/45/EC): Manufactured Article (Dust generated from processing – Carc Cat 3, Xi, N, R38, R40, R51/53)

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

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Chopped continuous strand fiberglass (> 5 microns in diameter)	65997-17-3 / 266-046-0	8-89%	Not classified as dangerous
Special Purpose Glass Fiber Respirable Size	65997-17-3 / 266-046-0	6-84%	Carc Cat 3, Xi, R38, R40
Polymer Binder	Proprietary	3 -16%	Not classified as dangerous
Diiodomethyl-p-tolyl sulfone	20018-09-1 / 243-468-3	0-0.5%	Xi R36
5-Chloro-2-(2,4-dichlorophenoxy) phenol (Triclosan)	3380-34-5 / 222-182-2	0-0.1%	Xi, N R36/38, R50/53

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. Dust 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: Do not rub or scratch. Rinse exposed skin with cold water then wash skin with soap and water. Do not use hot water as that opens skin pores and may increase fiber penetration and irritation. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.

Ingestion: If small quantities are swallowed, rinse out mouth with water. Drink plenty of water to help reduce irritation. If large amounts are swallowed or if irritation or discomfort occurs, get immediate medical attention.

Inhalation: Remove victim to fresh air. 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: This product is not classified as flammable or combustible. 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 of polymer binder and anti-microbial agents will generate oxides of carbon, sulfur, fluorine, hydrogen fluoride, iodine, chlorine, hydrogen fluoride, carbonyl sulfide and various 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.

Personal Precautions: Avoid contact with skin, eyes or clothing.

Environmental Precautions: Avoid release to the environment. Antimicrobial agents are toxic to aquatic organisms.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid creating and breathing dusts. Wear protective clothing and equipment as described in Section 8. Use only 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 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. Avoid release of product or dusts from processing to the environment.

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.

SECTION 8 EXPOSURE CONTROLE/PERSONAL PROTECTION

Occupational Exposure Limits:

Chopped continuous strand fiberglass (> 5 microns in diameter)	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP* 5 mg/m3 inhalable or 1 f/cc TWA ACGIH TLV 5 mg/m3 or 2 fibre/mL TWA UK OEL 1 fibre.cm-3 VME France 0.25 respirable fibers/mL Germany
Special Purpose Glass Fiber Respirable Size	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP* 1 f/cc TWA ACGIH TLV 5 mg/m3 or 2 fibre/mL TWA UK OEL 1 fibre.cm-3 VME France 0.25 respirable fibers/mL Germany
Polymer Binder (as particulates not otherwise classified)	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL
Diiodomethyl-p-tolyl sulfone	None Established
5-Chloro-2-(2,4-dichlorophenoxy) phenol (Triclosan)	None Established

* HSPP = OSHA voluntary Health and Safety Partnership Program

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.

Personal Protective Equipment:

Eye Protection: Wear safety glasses with side shields or dust proof goggles.

Skin Protection: Wear protective gloves to minimize skin contact. Barrier creams may be useful in reducing irritation.

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 (in the US follow OSHA 1910.134) and good Industrial Hygiene practice.

Other Protective Clothing or Equipment: Clothing with long sleeves and pants should be worn to avoid skin contact. Washing facilities should be available in the work area. Work clothing should be laundered separately from normal clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White odorless bonded fiberglass web.

Boiling Point: Not applicable	Melting Point: >700°C (glass fibre)
VOC Content: Not applicable	Specific Gravity: Not available
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: None
Flammable Limits in Air: Not applicable	Autoignition Temperature: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid dust formation.

Incompatibility with Other Materials: Avoid strong acids and bases, organic solvents.

Hazardous Decomposition Products: Thermal decomposition of polymer binder will generate oxides of carbon, sulfur, fluorine, hydrogen fluoride, iodine, chlorine, hydrogen fluoride, carbonyl sulfide and various hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Dust may cause mechanical irritation and possible injury.

Skin: Dust may cause mechanical irritation. Repeated skin contact may cause sensitization.

Ingestion: May cause irritation of the mouth and intestinal tract.

Inhalation: Dust may cause nose, throat and upper respiratory tract irritation. Symptoms include coughing, sneezing and scratchy throat.

Chronic Health Effects: Prolonged inhalation of respirable dust from this product may cause adverse effects on the lungs.

Carcinogenicity: Glass wool including special purpose glass fibers (respirable size) are classified by NTP as reasonably anticipated to be a carcinogen. IARC has classified special purpose glass fibers as group 2B, possibly carcinogenic to humans. ACGIH has classified special purpose glass fibers as A3, confirmed animal carcinogen with unknown relevance to humans. Mineral wool (special purpose glass fibres) is classified as a category 3 carcinogen in the EU Dangerous Substances Directive. OSHA has not classified special purpose glass fibers. Continuous filament fiberglass is not classified as a carcinogen by OSHA, IARC, NTP, ACGIH or the EU Dangerous Substances Directive. None of the other components present at 0.1% or more is classified as a carcinogen by IARC, NTP, ACGIH, OSHA or the EU Dangerous Substances Directive.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin and respiratory disorders may be at increased risk from exposure.

Acute Toxicity Data:

Diiodomethyl-p-tolyl sulfone: LD50 oral mouse >10,000 mg/kg; LD50 oral rat 15.2 mL/kg

5-Chloro-2-(2,4-dichlorophenoxy) phenol (Triclosan): LD50 oral rat 3700 mg/kg; LD50 dermal rabbit 9300 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

Diiodomethyl-p-tolyl sulfone: Toxic to fish

5-Chloro-2-(2,4-dichlorophenoxy) phenol (Triclosan): EC50 daphnia magna 0.39 mg/L/48 hr; LC50 rainbow trout 0.288 mg/L/96 hr

This material is classified as toxic to aquatic organisms based on the antimicrobial agents present. Avoid release to the environment.

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 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 contains special purpose glass fiber respirable size which is known to the State of California to cause cancer. This product may also contain trace amounts of formaldehyde and methyl carbamate which are known to the State of California to cause cancer:

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: If dust is generated in processing this dust would be classified as Class D-2-A (eye, skin and respiratory irritant, sensitizer, carcinogen)

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

SECTION 16 OTHER INFORMATION

Revision Date: July 11, 2009

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

Carc Cat 3 Carcinogen Category 3

N Dangerous for the Environment

Xi Irritant

R36 Irritating to eyes.

R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Grade List: 1244-U, 1247-U, 1306-TX-U, 1395-U, 1894-U, 1923-U, 2991-U, 4450-HS-U, 4455-U