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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

NAME: **Microbiological Water Purification Cartridge**

TOXICITY HAZARDS

Hazardous Components: Contains Iodine on a proprietary resin.

Effects of Overexposure: Can irritate eyes, nose, throat and skin, hypersensitivity, nausea, abdominal pain, diarrhea, excessive thirst circulatory failure. Possibly fatal if swallowed.

HEALTH HAZARD DATA

Threshold Limit Values:

TVL-air 0.1 ppm as Iodine TXDS: orl-Hmn LDLo: 5 mg/kg as Iodine

First Aid Procedures:

Skin: Wash with soap/water, get medical assistance.

Eyes: Flush thoroughly with water 15 minutes. Assure adequate flushing by separating the eyelids with fingers; get medical assistance.

Inhalation: Remove to fresh air get medical assistance.

Ingestion: Give milk, starch solution, or tablespoon sodium thiosulfate in a glass of water and get immediate medical attention. Treat for shock.

Acute Effects: May cause eye irritation. Particles can irritate the eyes. Finely ground particles of similar material caused corneal damage in rabbit eyes.

Chronic Exposure: May cause insomnia, conjunctivitis, inflammation of the nasal mucous, bronchitis, tremor, rapid heart beat, diarrhea, and weight loss. Allergic sensitization can occur.

PHYSICAL DATA

Specific gravity- 1.11 Percent Volatile Components: Not determined Boiling Point: Not applicable

Vapor Pressure: Not Applicable

Appearance and Odor: Dark purple to black beads, with moderate iodine and amine odor.

Solubility: Beads release iodine in water in concentrations below 300 ppm.

FIRE AND EXPLOSION HAZARD DATA

Autoignition Temperature: 427 C EST

Product is not combustible until moisture is removed, than resin starts to burn at 230C. Autoignition occurs above 500C. Possible fire combustion products include alkylbenzenes, vinylbenzenes, naphthalene, benzaldehydes, phenol, carbon dioxide, water, organic amines, iodine, nitrogen oxides, ammonia.

Extinguishing Media:

Carbon Dioxide

Dry Chemical Powder

Water Spray

Special Firefighting Procedures:

Wear Self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards:

Emits Toxic fumes under fire conditions.

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REACTIVITY DATA

Drying results in release of iodine vapor.

Stability: Stable under normal handling and storage conditions.

Conditions to avoid: Temperatures over 220 C.

Incompatibilities: Nitric Acid and other strong oxidizing agents can cause explosion.

Materials to avoid: Ammonia, Acetylene, Acetaldehyde, Active metals particularly powdered Aluminum.

Reactions when mixed with ion exchange resins.

Hazardous combustion or decomposition products:

See fire and explosion hazard data.

Toxic fumes from combustion:

Carbon Monoxide and Carbon Dioxide

Nitrogen Oxides

Hazardous Polymerization will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled:

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in a bag and hold for waste disposal.

Floor may be slippery.

Avoid raising dust

Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method:

Observe all Federal, State, and Local Laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

OSHA/MSHA - approved respirator.

Mechanical exhaust.

Compatible chemical resistant gloves.

Dry ion exchange resins expand when wetted, which may cause column to leak.

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