AERCHEM INC.

320 North Walnut Bloomington, IN 47408

Tel: 812.334.9996 Fax: 812.334.1960 Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 9/26/97

Product Name: D-XYLITOL, D-xylo-pentane-1,2,3,4,5-pentol

Molecular Formula: $C_5H_{12}O_5$ 87-99-0 CAS No.:

SECTION 2: HAZARDOUS INGREDIENTS:

Slightly dangerous to dangerous in case of inhalation. Very slightly to slightly dangerous in case of eye contact (irritant), of ingestion. Substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 3: PHYSICAL DATA

Odor: odorless

Appearance: powdered solid, white, sweet taste

94°C (201.2°F) Melting point.: Boiling point: 216°C (420.8°F)

pH (depends on quality): n/a

Solubility in water: easily soluble in cold water; soluble in

methanol

Specific gravity (water = 1) 1.52 Vapor density: n/a Vapor pressure: n/a

SECTION 4: FIRE AND EXPLOSION DATA

Flash point: n/a Flammable limit: n/a

Flammability: combustible

Extinguishing media: use dry chemicals, carbon dioxide, water spray or foam; do not use

water jet

Fire fighting procedures:

Unusual fire and explosions hazards: Material in powder form, capable of creating a dust explosion.

SECTION 5: REACTIVITY DATA

Stable \mathbf{X} Unstable

Decomposition byproducts: carbon oxides

Incompatibilities/Condition to Avoid: No specific information available in database regarding activity of

material in presence of other materials.

Hazardous Polymerization:

SECTION 6: HEALTH HAZARD DATA

Toxicity: LD50 acute oral toxicity - mouse: 22000 mg/kg

Route of Entry: ingestion, inhalation

Permissible Exposure limits: n/a

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Use appropriate tools to put spilled solid in convenient waste disposal container. Finish Spillage:

cleaning by spreading water on contaminated surface and dispose of according to local and

regional authority requirements.

Recycle to process, if possible. Consult your local or regional authorities. Disposal:

SECTION 8: FIRST AID PROCEDURES

Immediately flush eves with running water for at least 15 minutes, keeping eyelids open. **Eve Contact:**

Cold water .may be used.

Skin Contact: No know effect according to database.

Inhalation: Allow victim to rest in a well ventilated area. Seek immediate medical attention.

Ingestion: Remove dentures, if any. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Lower head so vomit won't reenter mouth and

throat. Never give an unconscious person anything to ingest. Seek medical attention.

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SECTION 9: HANDLING AND STORAGE INFORMATION:

Keep away from heat, sources of ignition and strong oxidizing agents. Empty container pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Keep container dry, in a cool place, tightly closed, and in a well ventilated area. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 10: SPECIAL PROTECTION INFORMATION:

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to

keep airborne levels below recommended exposure limits.

Skin Protection: ves, in case of a large spill

safety glasses **Eve Protection:**

Respiratory Protection: dust respirator - be sure to use a MSHA.NIOSH approved respirator or equivalent

when ventilation is inadequate

Other: lab coat

SECTION 11: TRANSPORT INFORMATION

DOT Classification: not a DOT controlled material (USA)

SECTION 12: OTHER REGULATORY INFORMATION

Federal and State regulations: D-xylitol is listed on TSCA

WHMIS (Canada): WHMIS class D-2A: material causing other toxic effects (very toxic)

DSCL (EEC): R42- may cause sensitization by inhalation

HMIS (USA): Health hazard 1, Fire hazard 1, Reactivity 0, Personal protection a