

SWIFT SCIENCE

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ALDOR CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 120 Effective Date April 9, 1998

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Table with 2 columns: Field (Product, Chemical Synonyms, Formula, Unit Size, C.A.S. No.) and Value (ZINC SULFATE, MONOHYDRATE, Zinc Sulfate, Monohydrate, ZnSO4.H2O, up to 2.5 Kg., 7733-02-0). Includes CHEMTREC and NFPA/HAZARD RATING information.

SECTION II INGREDIENTS OF MIXTURES

Table with 3 columns: Principal Component(s), %, TLV Units. Row: Zinc Sulfate, Monohydrate, 100%, None established.

WARNING! HARMFUL IF SWALLOWED. IRRITANT TO EYES AND MUCOUS MEMBRANES. AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION.

SECTION III PHYSICAL DATA

Table with 4 columns: Property (Melting Point, Boiling Point, Vapor Pressure, Vapor Density, Solubility, Appearance & Odor) and Value.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Table with 4 columns: Flash Point, Extinguisher Media, Flammable Limits in Air, Lower/Upper.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established. (ACGIH 1992-93). Toxicity: Oral (Rat) LD50: 2200 mg/kg. Death has been reported at levels of 45-106mg/kg (man).

Effects of Overexposure Prompt vomiting (usually within five to ten minutes) after swallowing. Pain in mouth, esophagus and stomach. Diarrhea with "colicky" abdominal pain. Gastrointestinal irritant. EYES: May irritate eyes. Causes redness. SKIN: Zinc sulfate in an open skin lesion or cut can cause an ulcer.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink. Call physician immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. SKIN: Flush with water, then wash with soap and water. EYES: Immediately flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Table with 2 columns: Stability (Unstable, Stable) and Conditions to Avoid (Deliquescent, Excessive heat and moisture).

Incompatibility (Materials to Avoid) None known.

Hazardous Decomposition Products Thermal decomposition or burning may produce oxides of sulfur (SOx).

Table with 2 columns: Hazardous Polymerization (May Occur, Will Not Occur) and Conditions to Avoid (Not applicable).

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Large amounts: Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, wear NIOSH/MSHA-approved dust mask.

Table with 4 columns: Ventilation (Local Exhaust, Mechanical (General), Recommended, Special, Other) and No.

Protective Gloves Rubber. Eye Protection Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, eye wash station, ventilation hood, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5 Date 4/9/98 Approved Michael Raszeja Chemical Safety Coordinator MR

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