AERCHEM INC. 320 North Walnut

Bloomington, IN 47408

Emergency: 800.424.9300 Tel: 812.334.9996 Fax: 812.334.1960

SECTION 1: IDENTIFICATION

Effective Date: 12/8/96

Product Name: MAGNESIUM SULFATE, Epsom salts; sulfuric acid, magnesium salt, natural epsomite

 $MgSO_4$ · $7H_2O$ Molecular Formula: 10034-99-8 CAS No.:

SECTION 2: HAZARDOUS INGREDIENTS:

Caution! May be harmful if swallowed.

Inhalation: Dust may be slightly irritating. Sore throat or coughing may occur

Ingestion: Since magnesium salts are slowly absorbed, abdominal pain, vomiting and diarrhea may be the only

symptoms. However, if elimination is blocked by bowel blockage or other reasons, CNS depression, lack of

reflexes, hypocalcemia may occur Skin contact: No adverse effects expected but may cause minor skin irritation.

Eye contact: No adverse effects expected but dust may cause mechanical irritation.

SECTION 3: PHYSICAL DATA

Odor: odorless

transparent crystals or white powder Appearance:

Melting point.: 1124°C (2055°F) decomposes, loses all waters

of hydration above 200°C

Boiling point: n/a

Decomposition temperature: see melting point

pH (depends on quality): aqueous solution is neutral or slightly acidic

Solubility in water: very soluble in water: 71% @ 20°C

Specific Gravity 1.68

Vapor density: no info found Vapor pressure: no info found

SECTION 4: FIRE AND EXPLOSION DATA

Flammable limit: not considered to be a fire hazard

Extinguishing media: use any means suitable for extinguishing surrounding fire Fire fighting procedures: use protective clothing and breathing equipment appropriate for

surrounding fire

Unusual fire and explosions hazards: not considered to be an explosion hazard

SECTION 5: REACTIVITY DATA

Stable Unstable _

Decomposition byproducts: Oxides of sulfur and the contained metals. Loses some moisture

on exposure to dry air at room temperatures.

Incompatibilities/Condition to Avoid: ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead,

barium, strontium, and calcium, heat, moisture

Hazardous Polymerization: will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity: no info found relating to normal routes of occupational exposure; investigated

as a mutagen, reproductive effector

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment. Sweep up Spillage:

and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to

avoid dust dispersal.

Disposal: Whatever cannot be saved for recovery or recycling should be managed in an appropriate

and

approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with

federal, state and local requirements.

SECTION 8: FIRST AID PROCEDURES

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Eve Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

Skin Contact: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes.

Get medical attention if irritation develops or persists.

Remove to fresh air. Get medical attention for any breathing difficulty. Inhalation:

Give several glasses of water to drink to dilute. If large amount were swallowed, get **Ingestion:**

medical advice.

IV administration of calcium gluconate will partially reverse the effects of acute magnesium Note to physician:

toxicity. Ventricular support with calcium chloride infusion and mannitol forced diuresis

also been successful.

SECTION 9: HANDLING AND STORAGE INFORMATION:

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product

SECTION 10: SPECIAL PROTECTION INFORMATION:

Ventilation: A system of local and/or general exhaust is recommended to keep employee exposures as low

as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work

area. Please refer to the ACGIH document, Industrial Ventilation, a Manual of

Recommended Practices, most recent edition, for details

Skin Protection: Wear protective gloves and clean body covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eve wash fountain and quick drench facilities in

For conditions of use where exposure to dust or mist is apparent, a half-face **Respiratory Protection:**

dust/mist respirator may be worn. For emergencies or instances where exposure levels are not known, use a full face positive pressure, air supplied respirator. Warning: air

purifying respirators do not protect workers in oxygen deficient atmospheres.

SECTION 11: TRANSPORT INFORMATION

DOT Classification: not regulated

SECTION 12: OTHER REGULATORY INFORMATION

for magnesium sulfate anhydrous

Federal and State regulations: SARA 302 - RQ & TPO = noCERCLA = No RCRA 261.33 = No

> TSCA 8(d) = noSARA313 list & chem cat g = no

Chemical Inventory status: TSCA = vesEC=ves Japan = vesAustralian = vesFlammability = 0Reactivity = 0NFPA ratings Health = 1