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: 9/23/97

Product Name: Dicalcium Phosphate Dihydrate

Molecular Formula: CaHPO4· 2H2O 7789-77-7

SECTION

2: HAZARDOUS INGREDIENTS:

Eyes: No more than slightly irritating based on toxicity studies. Dry powder may cause foreign body irritation in

some individuals.

Skin: No more than slightly toxic or slightly irritating based on toxicity studies. Prolonged contact with dry powder

may cause drying or chapping of skin.

Inhalation: May cause coughing and sneezing.

Ingestion: Not toxic if swallowed based on toxicity studies. No significant adverse health effects are expected to

develop if only small amounts (less than a mouthful) are swallowed

SECTION

3: PHYSICAL DATA

Odor: odorless
Appearance: white powder

Melting point.: decomposes at about 190°C

Boiling point: n/a

Decomposition temperature: see melting point pH (depends on quality): 7.2-7.5 (20g/80g H2O)

Solubility in water: practically insoluble (0,032 g/100mL H2O)
Solubility in other solvents: practically insoluble in dilute hydrochloric and nitric

acids; insoluble in alcohol

SECTION 4: FIRE AND EXPLOSION DATA

Flash point: n/a

Flammability: not combustible Extinguishing media: not applicable Unusual fire and explosions hazards: none

SECTION 5: REACTIVITY DATA

Stable ____X____ Unstable ____

Decomposition byproducts:Incompatibilities/Condition to Avoid:

Hazardous Polymerization: will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity: oral, rat, LD50: > 10,000 mg/kg; practically nontoxic

dermal, rabbit, LD50: > 7,940 mg/kg; practically nontoxic

eye, rabbit: 3.3/110.0; slightly irritating skin, rabbit: 0.0/8.0 (4 hr exp); nonirritating

No adverse genetic changes were reported in standard tests using bacterial

cells.

Route of Entry: skin and inhalation

Permissible Exposure limits: 15mg/m3 (total dust) 8 hr TWA; 5mg/m3 (respirable) 8hr TWA 10mg/m3 (inhalable) 8hr TWA; 3mg/m3 (respirable) 8hr TWA

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Sweep, scoop, or vacuum and remove. Flush residual spill with water.

Disposal: Not hazardous waste as defined by RCRA, 40CFR 261. Dry material may be landfilled or

recycled in accordance with local, state and federal regulations. Consult attorney or

appropriate regulatory officials for information on such disposal.

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SECTION 8: FIRST AID PROCEDURES

Ingestion:

Eye and Skin Contact: Immediate first aid is not likely to be required. However, this material can

be removed with water. Wash heavily contaminated clothing before reuse.

Inhalation: Immediate first aid not likely to be required. However, if symptoms

occur, remove to fresh air. Remove material from eyes, skin and clothing.

Immediate first aid not likely to be required. A physician or Poison

Control Center can be contacted for advice. Wash heavily contaminated

clothing before reuse.

SECTION 9: HANDLING AND STORAGE INFORMATION:

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing. Store in a cool, dry place to maintain product performance.

SECTION 10: SPECIAL PROTECTION INFORMATION:

Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne

exposure limits. Use of mechanical ventilation is preferred at sources of air

contamination such as open process equipment.

Skin Protection: Follow good industrial practice. Gloves are recommended. Wash hands after

Follow good industrial practice. Does not cause significant irritation or toxicity. **Eve Protection:**

Respiratory Protection: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection

> equipment when airborne exposure is excessive. Consult respirator manufacturer determine appropriate type equipment for given application. Observe respirator

to use

limitations specified by NIOSH/MSHA or the manufacturer.

Other: n/a

SECTION 11: TRANSPORT INFORMATION

DOT Classification: not hazardous

SECTION 12: ECOLOGICAL INFORMATION

The following data have been classified using criteria adopted by the European Economic Community for aquatic organism toxicity. Invertebrate: 96hr EC50 daphnia magna: >1000mg/L; practically non-toxic.