

Columbus Chemical Industries, Inc.

Columbus, Wisconsin 53925 / 414 - 623 - 2140

MATERIAL SAFETY DATA SHEET

SECTION I

n 1935

CHEMICAL NAME:

Ferric nitrate

PRODUCT NAME: DISTRIBUTOR'S

NAME:

Ferric nitrate

Columbus Chemical Industries, Inc. N4335 Temkin Road, Columbus, WI 53925

ADDRESS: EMERGENCY TELEPHONE NO.: (414) 623-2140

DATE PREPARED: July 1987

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS OSHA PEL ACGIH TLV (SPECIFIC CHEMICAL IDENTITY; (Hg/M3) (Hg/M3) COMMON NAME)

C. A. S. NO.

Ferric nitrate (as Fe)

¥

10421-48-4 (anhydrous) 1.0

7782-61-8 (nonahydrate)

what established

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:

SPECIFIC GRAVITY (H20=1): 1.68

VAPOR PRESSURE (HHHG): N/A

MELTING POINT: EVAPORATION RATE 47 C

VAPOR DENSITY (AIR=1): N/A

SOLUBILITY IN WATER: soluble (BUTYL ACETATE=1): APPEARANCE AND ODOR: Pale violet crystal, slight nitric acid odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): N/A

FLAMMABLE LIMITS: LEL N/A UEL N/A

EXTINGUISHING MEDIA: Water

SPECIAL FIREFIGHTING PROCEDURES: Self-Contained Breathing Apparatus should be used when firefighting in confined spaces.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition may produce toxic oxides of nitrogen. Stong oxidizer. Contact with combustible material may cause fire.

SECTION V - REACTIVITY DATA

CONDITIONS TO AVOID: N/A STABILITY: STABLE: X UNSTABLE: INCOMPATIBILITY (MATERIALS TO AVOID): Easily oxidizable materials HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal decomposition may

produce toxic oxides of nitrogen.

HAZARDOUS POLYMERIZATION: MAY OCCUR:

WILL NOT OCCUR: X

CONDITIONS TO AVOID: N/A

SECTION VI - HEALTH HAZARD DATA

PRODUCT: Ferric mitrate

TOXICITY: orl-rat LD50:3250mg/kg

INGESTION: SKIN: X ROUTE(S) OF ENTRY: INHALATION: X

OSHA REGULATED: NO

HEALTH HAZARDS (ACUTE & CHRONIC)/SIGNS AND SYMPTOMS OF EXPOSURE:

This product may cause irritation or acid burns to the eyes and skim. It may cause upper respiratory tract irritation. Ingestion of soluble iron salts may cause marked gastrointestinal irritation.

Liver damage, coma and death from iron poisoning has been recorded. Under some circumstances methemoglobinemia occurs in individuals when the nitrate is converted by bacteria in the stomach to nitrite.

SYMPTOMS: Coughing, sneezing, abdominal cramps, vomiting, diarrhea, black stool. Pink urine discoloration is a strong indicator of iron poisoning. Reddening and tearing of eyes can also occur.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Eye, Skin and Upper Respiratory Tract disorders. Persons with impaired liver or kidney may be more susceptible.

EMERGENCY AND FIRST AID PROCEDURES:

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give exygen. Call a physician. If swallened, induce we miting innediately by giving the glasses of mater and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person. In case of contact, inmediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

> SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ______

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Heutralize with an alkaline material and flush with water to a wastewater treatment system.

WASTE DISPOSAL METHOD:

Flush with water to a wastewater treatment system or neutralize with an alkaline waterial and dispose of insoluble hydrate solid at an approved landfill. Observe local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in a cool dry area in closed containers. Keep away from combustible materials.

OTHER PRECAUTIONS:

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Contact with other material man cause fire.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH/MSHA approved for dust

VENTILATION: Sufficient to control dust

Inpervious PROTECTIVE GLOVES:

Side shield safety glasses or goggles EYE PROTECTION:

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: Safety showers and eyewashes HORK/HYGIENIC PRACTICES: Good housekeeping procedures should be followed

to minimize dust.

SECTION IX - REFERENCES

Documentation of the Threshold Limit Values, 4th Ed., 1980, ACGIH