## Wallinckrodt Material Safety Data

Emergency Phone Number: 314-982-5000

makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose Mallinckrodt provides the information contained herein in good faith bu



resulting from use of or reliance upon this information. refers. Accordingly, Mallinckrodt will not be responsible for damages the information set forth herein or to the product to which the information implied, of merchantability, fitness for a particular purpose with respect to Mallinckrodt makes no representations, or warranties, either express or

Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 43061.

# FERRIC NITRATE

PRODUCT IDENTIFICATION

Synonyms: Nitric acid, iron (3+) salt nonahydrate; iron nitrate nonahydrate; iron trinitrate

Formula CAS No.: 7782-61-8

TSCA CAS No.: 10421-48-4

Molecular Weight: 404.00

Chemical Formula: Fe(NO3)39H2O

Hazardous Ingredients: Not applicable

# PRECAUTIONARY MEASURES

SWALLOWED. CAUSES IRRITATION. MATERIAL MAY CAUSE FIRE. MAY BE HARMFUL IF WARNING! OXIDIZER CONTACT WITH OTHER

Wash thoroughly after handling Remove and wash contaminated clothing promptly. Store in a tightly closed container. Keep from contact with clothing and other combustible materials. Avoid contact with eyes, skin and clothing.

# EMERGENCY/FIRST AID

SEE SECTION 5 water for at least 15 minutes. In case of contact, immediately flush skin or eyes with plenty of

DOT Hazard Class: Oxidizer

## SECTION 1 Physical Data

Odor: Slight nitric acid odor. Appearance: Violet crystals

Solubility: Freely soluble in water

Boiling Point: Decomposes below 100°C (212°F).

Melting Point: 47.2°C (117°F)

Specific Gravity: 1.684

Vapor Pressure (mm Hg): No information found. Vapor Density (Air=1): No information found.

Evaporation Rate: No information found

# SECITON 2 Fire and Explosion Information

of reaction with reducing agents or combustibles may cause Not combustible, but substance is a strong oxidizer and its heat

### Explosion:

combustion. Contact with oxidizable substances may cause extremely violent

Fire Extinguishing Media:
Dry chemical, foam or carbon dioxide.

## Special Information:

high-intensity fire or potential explosion conditions Wear full protective clothing and breathing equipment for

# SECTION 3 Reactivity Date

Stable under ordinary conditions of use and storage.

# Hazardous Decomposition Products

Emits nitrous oxides when heated to decomposition.

## Hazardous Polymerization:

This substance does not polymerize

## Incompatibilities:

Substance may react violently with some organic compounds or reducing agents.

# SECTION 4 Leak/Spill Disposal Information

may be disposed in an RCRA approved hazardous waste facility or fumes. Disposal: Whatever cannot be saved for reclamation protective clothing and respiratory protection from dust. Ventilate area of leak or spill. Clean-up personnel require reclamation or disposal in a method that does not generate dust Spills: Pick up and place in a suitable container for

Reportable Quantity (RQ)(CWA/CERCLA): 1000 lbs

Ensure compliance with local, state and federal regulations

## SECTION 5 Health Hazard Information

# EXPOSURE / HEALTH EFFECTS

### Inhalation

Dusts and mists of ferric salts may be irritating to the respiratory tract. Coughing, sneezing may occur.

discoloration is a strong indicator of iron poisoning. Liver cramps, vomiting, diarrhea, and black stool. Pink urine Large doses can cause gastrointestinal irritation, with abdominal damage, coma, and death from iron poisoning has been recorded

### Skin Contact:

Ferric salts may be skin irritants.

### Eye Contact:

Irritant. May cause reddening and tearing

## Chronic Exposure:

when the nitrate is converted by bacteria in the stomach to Under some circumstances methemoglobinemia occurs in individuals

# Aggrevation of Pre-existing Conditions:

susceptible to the effects of the substance. impaired liver, kidney or respiratory function may be more Persons with pre-existing skin disorders or eye problems, or

### FIRST AID

### Inhalation:

Remove to fresh air. Get medical attention for any breathing

### Ingestion:

anything by mouth to an unconscious person. Call physician If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give immediately.

### Skin Exposure:

detergent and water for at least 15 minutes. Get medical Remove any contaminated clothing. Wash skin with soap or mild

### Eye Exposure:

lower and upper eyelids occasionally. Get medical attention immediately.

## C. TOXICITY DATA

Oral rat LD50: 3250 mg/kg

# SECTION 6 Occupational Control Measures

# Airborne Exposure Limits:

-ACGIH Threshold Limit Value (TLV): soluble iron salts 1 mg (Fe)/m<sup>3</sup> (TWA)

2 mg (Fe)/m<sup>3</sup> (SIEL)

attention if irritation develops or persists.

Wash eyes with plenty of water for at least 15 minutes, lifting

## (RTECS, 1982)

## Ventilation System:

ACGIH document, "Industrial Ventilation, A Manual of dispersion of it into the general work area. Please refer to the exhaust ventilation is generally preferred because it can control employee exposures below the Airborne Exposure Limits. Local A system of local and/or general exhaust is recommended to keep Recommended Practices\*, most recent edition, for details. the emissions of the contaminant at its source, preventing

## Personal Respirators: (NIOSH Approved)

goggles may be worn, in general, up to ten times the TLV. Consult If the TLV is exceeded, a dust/mist respirator with chemical full facepiece respirator or airlined hood may be worn. respirator supplier for limitations. Alternatively, a supplied air

### Skin Protection:

Wear protective gloves and clean body-covering clothing.

### Eye Protection:

when working with this material. Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles. Contact lenses should not be worn

# SECTION 7 Storage and Special Information

physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Keep in a tightly closed container.Protect from

FERNI

\*\*\*\*\*\*