

11222 MELROSE AVENUE FRANKLIN PARK, ILLINOIS 60031 (312) 451-0150  
CENTRAL SCIENTIFIC COMPANY, LTD.  
630 HALLTAWA AVENUE MISSISSAUGA, ONTARIO L4X 1K1

000555 SDS No. 37836-01, 37836-04  
Effective Date 11/15/88

**24 HOUR EMERGENCY ASSISTANCE**

<b>SECTION I</b>	<b>NAME</b>	Ferrie Nitrate, Monohydrate
<b>Product</b>	Chemical Synonyms	CHEMTREC 800-424-9300 Day (312) 364-0150
<b>Formula</b>	HEALTH	2
<b>RTECS #</b>	FLAMMABILITY	0
<b>C.A.S. No.</b>	REACTIVITY	3
7782-61-8	HAZARD RATING	LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4

<b>SECTION II</b>	<b>HAZARDOUS INGREDIENTS OF MIXTURES</b>	%	TLV Units
Principal Hazardous Component(s)			
NA - Not Applicable			
NE - None Established			

**SECTION III PHYSICAL DATA**

Melting Point (°F)	47°C	Specific Gravity (H <sub>2</sub> O = 1)	NA
Boiling Point (°F)	Decomposes	Percent Volatile by Volume (%)	NA
Vapor Pressure (mm Hg)	NA	Evaporation Rate	NA
Vapor Density (Air = 1)	NA		
Solubility in Water	Very		
Appearance and Odor	Pale violet crystals, nitric acid odor.		

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used)	NA	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher	Use any medium suitable for extinguishing supporting fire.			
Medial				

**SPECIAL FIREFIGHTING PROCEDURES**  
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepieces operated in the pressure demand or other positive pressure mode.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
Not combustible, but is a hazardous oxidizing material. In contact with easily oxidizable substances may cause ignition, violent combustion or explosion. Increases the flammability of combustible materials.

**D.O.T.** Ferrie Nitrate, Oxidizer, UN1466

Approved by U.S. Department of Labor "essentially similar" to form OSHA-174

**SECTION V HEALTH HAZARD DATA**

**Threshold Limited Value**  
1 mg/m<sup>3</sup> (as Fe) TWA

**Effects of Overexposure**  
Acute: Irritation to skin, eyes, lungs, mucous membranes, and GI tract. Coughing.  
Chronic: Systemic metal poisoning, liver/kidney damage, nitrite poisoning possible.

**Emergency and First Aid Procedures**  
SKIN: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. INGESTION: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

**SECTION VI REACTIVITY DATA**

<b>Stability</b>	Unstable	Conditions to Avoid	Heat
	Stable		
<b>Incompatibility (Materials to avoid)</b>	X Easily oxidizable materials, reducing agents.		

**Hazardous Decomposition Products**  
Nitrogen oxides.

<b>Hazardous Polymerization</b>	Will Not Occur	<b>Conditions to Avoid</b>	None
<b>May Occur</b>			

**SECTION VII SPILL OR LEAK PROCEDURES**

**Steps to be taken in case material is released or spilled**  
Avoid oxidizable materials. Remove all sources of ignition. Ventilate area of leak or spill. Clean-up personnel may require protection from inhalation of dust. Spills: Clean up in a manner that does not disperse dust into the air.

**Waste Disposal Method**  
Disposal: Whatever cannot be saved for reclamation may be disposed in a RCRA-approved waste facility. Do not flush to the sewer.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

<b>Respiration Protection (Specify Type)</b>	Dust		
<b>Ventilation</b>	Local Exhaust	Special	
	Mechanical (General)	Other	
<b>Protective Gloves</b>	Vinyl or Rubber	<b>Eye Protection</b>	Goggles
<b>Other Protective Equipment</b>	Lab coat		

**SECTION IX SPECIAL PRECAUTIONS**  
**Precautions to be Taken in Handling and Storing**  
Store in a cool dry location.  
Keep container tightly closed when not in use.

**Other Precautions**  
Read label on container before using.

**Conditions Aggravated/Target Organs:** Persons with preexisting skin, eye, respiratory, or kidney/liver disorders may be more susceptible.

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

<b>Rev. No.</b>	2	<b>Date</b>	11/15/88	<b>Approved</b>	K. Kuchel	<b>Chemical Safety Coordinator</b>	BMC
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