

24HR. EMERGENCY NO. CHEM-TREC 1-800-424-9300

MATERIAL SAFETY DATA SHEET

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SECTION 1 Product Identification

CHEMICAL NAME: Iron (III) nitrate

CAS#: 7782-61-8

FORMULA: Fe(NO₃)₃·9H₂O

SYNONYM: Ferric nitrate, nonahydrate, Nitric acid, iron(3+) salt, nonahydrate

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7782-61-8	100	1mg/m ³ (as Fe-soluble)	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritant and poison. Ingestion of moderate amounts of soluble iron salts leads to lethargy, nausea, fast weak pulse, coma and death. May cause liver damage.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, eyes, skin.

EYE CONTACT: May cause moderate to severe irritation of the eyes.

SKIN CONTACT: May cause irritation, redness, and pain to skin.

INHALATION: Dust causes coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

INGESTION: Soluble iron salts may cause poisoning.

CHRONIC HEALTH EFFECTS: Prolonged ingestion may lead to damage to the liver and pancreas. Prolonged inhalation of dusts may cause pulmonary fibrosis.

ACUTE HEALTH EFFECTS: Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma and death may follow, sometimes delayed as long as three days. Antidotes may be administered by expert medical personnel.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.