

MATERIAL SAFETY DATA SHEET (MSDS)

EM Science
M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer: EM SCIENCE A Division of EM Industries P.O. Box 70 480 Democrat Road Gibbstown, N.J. 08027	For More Information Call 856-423-6300 Technical Service Monday - Friday; 8:00 AM to 5:00 PM In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 416-201-6383 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week
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Product Name: Manganous nitrate solution
Product Code(s): B29143,
Chemical Name/Other Name: Manganous nitrate solution
Chemical Formula: $Mn(NO_3)_2 \cdot 6H_2O$, H_2O
Chemical Family: Inorganic salt solution
TDG Shipping Name/UN: Manganese nitrate UN 2724
TDG Classification/Packing group: 5.1 PG III
Use: Laboratory reagent, industrial processes

Section II Hazardous Ingredients

Chemical name	CAS No.	%
Manganous nitrate	17141-63-8	50

Section III Physical Data

Physical State: Liquid
Appearance and Odour: Pink solution; odourless
Odour Threshold: Not applicable
Specific Gravity: 1.36
Vapour Pressure: Not available
Vapour Density: Not available
Evaporation Rate: Not available
Boiling Point: Not available
Freezing Point: Not available
pH: Slightly acidic
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Noncombustible
Extinguishing Media: Water spray
Flash point / method: Not applicable
UEL: Not applicable

LEL: Not applicable
Autoignition Temperature: Not applicable
Hazardous Combustion Products: NO_x
Explosion data - sensitivity to mechanical impact: No
- sensitivity to static discharge: No

Section V Reactivity Data

Conditions of instability: Normally stable
Incompatibilities: Reducing agents, urea, combustibles materials such as wood, or organic materials, metal such as iron, copper and their alloys.
Conditions of reactivity: Normally stable
Hazardous decomposition products: NO_x

Section VI Toxicological Properties / Health Hazard Data

Route of entry:
-skin contact: Irritates
-skin absorption: Harmful
-eye contact: Irritates
-inhalation: Harmful
-ingestion: Harmful
LC₅₀: Not available
LD₅₀: Not available
Exposure Limits: TLV : 5 mg/m³ as Mn
Effects of Acute Exposure: Inhalation of mist may cause CNS effects, such as sleepiness, weakness in legs and languor which is oppressive stillness of air. Eye and skin contact may result in irritation.
Effects of Chronic Exposure: Chronic ingestion may cause irritation, headaches, dermatitis, liver enlargement followed by a progressive deterioration similar to Parkinsonian syndrome.
Irritancy: No experimental information available
Sensitization to Product: No information available
Carcinogenicity: No information available
Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Toxicologically Synergistic Products: None found

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.
Eye:-----4 Unll0 1 lg pp(s)r at least 15)Tjw 1 Tf 13.1998 0 Td (No

Date: MAY 17, 1989

Revision date: JAN 9, 1992; OCT 4, 1994; JULY 30, 1997; SEPT 22, 1997;
Sep 28, 2000

WHMIS Classification: C, D2B

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