

Valudor Products

MATERIAL SAFETY DATA SHEET

Product Name: Manganese Sulfate Monohydrate
 Supplier: Valudor Products
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Distributed By: PVS NOLWOOD CHEMICALS, INC. 10900 Harper Avenue Detroit, MI, 48213 (313) 925-0300	
PVS ITEM #	PVS MSDS #
12979	2514

CONTROLLED DOCUMENT
IF STAMPED IN RED

PRODUCT IDENTIFICATION

Product Name: Manganese Sulfate Monohydrate
 Molecular Formula: $MnSO_4 \cdot H_2O$
 CAS Number: 7785-87-7

PHYSICAL PROPERTIES

Appearance: Pale pink granular powder
 Odor: No Odor
 Density: 2.95
 Solubility in Water: Soluble in water

HEALTH HAZARD INFORMATION

Skin: May cause irritation with redness and pain.

Eyes: May cause irritation, redness and pain.

Inhalation: May irritate the respiratory tract. May increase the incidence of upper respiratory infections (pneumonia). Absorption of inorganic manganese salts through the lungs is poor but may occur in chronic poisoning.

Swallowing: May cause abdominal pain and nausea. Although they are poorly absorbed through the intestines, inorganic manganese salts may produce hypoglycemia and decreased calcium blood levels should absorption occur.

Chronic Exposure: Chronic manganese poisoning can result from excessive inhalation and ingestion exposure and involves impairment of the central nervous system. Early symptoms include sluggishness, sleepiness, and weakness in the legs. Advanced cases have shown fixed facial expression, emotional disturbances, spastic gait, and falling. Illness closely resembles Parkinson's Disease. Kidney effects, blood changes and manganese psychosis also may occur as a result of chronic exposure. Chronic inhalation exposure can cause lung damage.

*MSDS Manganese Sulfate Monohydrate***FIRE AND EXPLOSION HAZARD INFORMATION**

Flash Point: Not applicable
Flammable Limits: Not flammable.
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Oxides of sulfur and the contained metal.
Polymerization: Will not occur.

FIRST AID MEASURES

Swallowing: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Skin: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EXPOSURE CONTROLS AND PERSONAL PROTECTION INFORMATION

Personal Protective Equipment: Skin Protection: Wear protective gloves and clean body-covering clothing.
Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.
Ventilation: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document,

MSDS Manganese Sulfate Monohydrate

Industrial Ventilation: A Manual of Recommended Practices, most recent edition, for details.

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Airborne Exposure Limits: -OSHA Permissible Exposure Limit (PEL):
5 mg/m³ Ceiling for manganese compounds as Mn

-ACGIH Threshold Limit Value (TLV): 0.2 mg/m³ (TWA) for manganese, elemental and inorganic compounds as Mn
ENVIRONMENTAL AND DISPOSAL INFORMATION

Waste Disposal: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Environmental Effects: No information found.

TOXICOLOGICAL INFORMATION

Oral rat LD50: 2150 mg/kg.

REGULATORY INFORMATION

Chemical Weapons

Convention:	No	
SARA 311/312:	Acute: Yes	Chronic: Yes
SARA 302:	No	
TSCA 12(b):	No	
Fire:	No	
CDTA:	No	
Pressure:	No	

*MSDS Manganese Sulfate Monohydrate***SHIPPING INFORMATION**

Not regulated

NPFA RATINGS:

Health: 2

Flammability: 0

Reactivity: 0

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