

# Safety Data Sheet

## Manganese Sulphate Mini, Granule & Powder

### 1 . Product and company identification

<b>Common name</b>	: Manganese Sulphate Mini, Granule, Maxi & Powder
<b>Material uses</b>	: Included in animal feeds and as a fertilizer micronutrient.
<b>Supplier/Manufacturer</b>	: B-303 , Anand Square Near Anand vihar , Tragad Village Ahmedabad-382470 Gujarat , India Tel : 91-9428199600 E-mail: <a href="mailto:info@mineralsfeed.com">info@mineralsfeed.com</a>
<b>In case of emergency</b>	: CANUTEC 91-9428199600

### 2 . Hazards identification

<b>Physical state</b>	: Solid. (Powder.)
<b>Odor</b>	: Odorless.
<b>Color</b>	: Pink. (Light.)
<b>Hazard status</b>	: This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.
<b>Emergency overview</b>	: WARNING ! CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, RESPIRATORY TRACT, CENTRAL NERVOUS SYSTEM. Avoid contact with skin and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Eyes</b>	: Irritating to eyes.
<b>Skin</b>	: Irritating to skin.
<b>Inhalation</b>	: Irritating to respiratory system.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Potential chronic health effects</b>	: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.
<b>Medical conditions aggravated by over-exposure</b>	: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged exposure to the substance can produce target organ damage.
See toxicological information (section 11)	

### 3 . Composition/information on ingredients

Name	CAS number	%
Manganese sulfate, monohydrate	10034-96-5	60 - 100

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Manganese sulfate, monohydrate	10034-96-5	60 - 100

## 4 . First aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
<b>Skin contact</b>	: Wash with soap and water. Get medical attention if symptoms occur.
<b>Inhalation</b>	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
<b>Ingestion</b>	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Notes to physician</b>	: No specific antidote. Medical staff must contact Poison Control Center.

## 5 . Fire-fighting measures

<b>Flammability of the product</b>	: Non-flammable.
<b>Extinguishing media</b>	
<b>Suitable</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	: None known.
<b>Special exposure hazards</b>	: No specific hazard.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

<b>Personal precautions</b>	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
<b>Environmental precautions</b>	: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
<b>Methods for cleaning up</b>	: If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

## 7 . Handling and storage

<b>Handling</b>	: Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.
<b>Storage</b>	: Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8 . Exposure controls/personal protection

<b>Product name</b>	<b>Exposure limits</b>
Manganese sulfate, monohydrate	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hour(s). Form: All forms.
	<b>NIOSH REL (United States, 12/2001).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). Form: All forms. TWA: 1 mg/m <sup>3</sup> 10 hour(s). Form: All forms.
	<b>OSHA PEL (United States, 8/1997).</b> CEIL: 5 mg/m <sup>3</sup> Form: All forms.
	<b>OSHA PEL 1989 (United States, 3/1989).</b> CEIL: 5 mg/m <sup>3</sup> Form: All forms.

**Product name**

Manganese sulfate, monohydrate

**Exposure limits****ACGIH TLV (United States, 1/2005).**TWA: 0.2 mg/m<sup>3</sup> 8 hour(s). Form: All forms.**Engineering measures**

: Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection**

- Eyes** : Safety glasses.
- Skin** : Lab coat.
- Respiratory** : A respirator is not needed under normal and intended conditions of use.
- Hands** : Natural rubber (latex).



**HMIS Code/Personal protective equipment** : B

**Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

## 9 . Physical and chemical properties

- Physical state** : Solid. (Powder.)
- Color** : Pink. (Light.)
- Odor** : Odorless.
- pH** : 5 to 7 (Conc. (% w/w): 10) [Acidic.]
- Boiling/condensation point** : 850°C (1562°F)
- Melting/freezing point** : 200°C (392°F)
- Relative density** : 2.95 (Water = 1)
- Solubility** : Soluble in cold water, hot water.

## 10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with oxidizing materials.
- Hazardous polymerization** : Will not occur.
- Conditions of reactivity** : Not available.

## 11 . Toxicological information

### Acute Effects

- Eyes** : Irritating to eyes.
- Skin** : Irritating to skin.
- Inhalation** : Irritating to respiratory system.
- Ingestion** : No known significant effects or critical hazards.
- Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic effects: Not available.
- Target organs** : Contains material which causes damage to the following organs: blood, kidneys, upper respiratory tract, central nervous system (CNS).

## 12 . Ecological information

- Environmental precautions** : No known significant effects or critical hazards.
- Products of degradation** : These products are sulfur oxides. Some metallic oxides.

## 13 . Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

## 14 . Transport information

### Regulatory information

**UN/ IMDG/ IATA DOT/ TDG** : Not regulated.

## 15 . Regulatory information

### United States

- HCS Classification** : Irritating material  
Target organ effects
- U.S. Federal regulations** : TSCA 6 proposed risk management: Lead  
TSCA 8(b) inventory: All components listed.  
TSCA 12(b) annual export notification: Lead  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
Clean Water Act (CWA) 307: Lead; Cadmium; Arsenic; Mercury  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**State regulations**

: Pennsylvania RTK: Manganese sulfate, monohydrate: (environmental hazard, generic environmental hazard); Lead: (environmental hazard, generic environmental hazard); Cadmium: (special hazard, environmental hazard, generic environmental hazard); Arsenic: (environmental hazard, generic environmental hazard); Mercury: (environmental hazard, generic environmental hazard)  
 Massachusetts RTK: Lead; Cadmium; Arsenic; Mercury  
 New Jersey: Manganese sulfate, monohydrate; Lead; Cadmium; Arsenic; Mercury  
**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Lead	Yes.	Yes.	15 µg/day (ingestion)	Yes.
Cadmium	Yes.	Yes.	0.05 µg/day (inhalation)	Yes.
Arsenic	Yes.	No.	0.06 µg/day (inhalation)	No.
Mercury	No.	Yes.	No.	No.

**Canada**

**WHMIS (Canada)**

: Class D-2B: Material causing other toxic effects (Toxic).



DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

**International lists**

: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

**16 . Other information**

**Label requirements (U.S.A.)** : CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
 CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
 BLOOD, KIDNEYS, RESPIRATORY TRACT, CENTRAL NERVOUS SYSTEM.

**Hazardous Material**

**Information System (U.S.A.)**

HMIS RATING		
Health	*	1
Fire hazard		0
Physical Hazard		0
Personal protection		B

**HAZARD RATINGS**

4- Extreme  
 3- Serious  
 2- Moderate  
 1- Slight  
 0- Minimal  
 See section 8 for more detailed information on personal protection.

**National Fire Protection Association (U.S.A.)**



**Version** : 1

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.