



## Hazard Communication Standard Safety Data Sheet (SDS)

# Arizona's Best Manganese Sulfate

Supersedes all prior versions

Issuing Date: 8/15/2015

### 1. Product and Company Identification

**Product Name(s)/Synonyms:** Arizona's Best Manganese Sulfate, AZB40018, AZB40018C, Manganese (II) Sulfate Monohydrate

**Recommended Use:** Use in soils deficient in manganese.

**Information on Manufacturer:**

Western Organics, Inc.  
420 E. Southern Ave.  
Tempe, AZ 85282  
602-792-0275

**Emergency Telephone Numbers:**

800-424-9300 (Chemtrec)  
800-222-1222 (American Association of Poison Control)

### 2. Hazards Identification

**DANGER**



**Hazard Classification:**

**Health:** Serious eye damage/eye irritation. - Category 1

Specific target organ toxicity, repeated exposure. - Category 2

**Environmental:** Hazardous to the aquatic environment, long term hazard. - Category 2

**Hazard Statement(s):**

Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects. Keep out of reach of children and pets.

**Precautionary Statement(s):**

Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment. Wear eye/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call poison control. Collect spillage. Store away from incompatible materials. Dispose of contents/container within local/regional/national/international regulations.

**Unclassified Hazard(s) Description:**

None known.

### 3. Composition / Information on Ingredients

Chemical/Component Name	Common Name	CAS #	%	Other
Manganese Sulfate, Monohydrate		10034-96-5	100	

### 4. First Aid Measures

**Eye Contact:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Get immediate medical attention. Continue rinsing.

**Skin Contact:**

Take off contaminated clothing. Rinse skin immediately with plenty of soap and water. Call a poison control center or doctor for treatment advice should a rash/skin irritation develop.

**Ingestion:**

Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation- Dust or Fumes:**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, if possible. If breathing is difficult, seek immediate medical assistance. Call a poison control center or doctor for further advice.

### 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** Use foam, Co2, dry chemical or water spray (fog) methods.

**Unsuitable Extinguishing Media:** Do not use water jet as this will spread fire.

**Firefighters:** Wear self contained breathing apparatus and full protective gear.

**Unusual Fire and Explosion Hazards:** During fire, gases hazardous to health may be formed.

### 6. Accidental Release Measures

**Personal Precautions:** Use dust mask to avoid inhalation of particles. Use protective clothing and equipment.

**Environmental Precautions:** Keep spills and runoff from municipal sewers and open bodies of water.

**Methods for Containment:** Cleanup the spill promptly by sweeping, scooping, and/or vacuum.

**Methods for Cleaning up:** Contain and dispose of per local and federal regulations. Spray area to wash off residue. Wash off any exposed skin. Collect and reuse if uncontaminated.

### 7. Handling and Storage

**Handling:** Avoid container breakage. Minimize dust generation. Wear appropriate clothing. Use with adequate ventilation.

**Storage:** Store in original containers only. Keep container closed and in a dry, ventilated location. Best to always store away from children, pets, and flame sources.

### 8. Exposure Controls / Personal Protection

Component(s)	NIOSH	ACGIH TLV	OSHA PEL
Nuisance Particles	3 mg/m3 Fume (STEL)	.1 mg/m3 Inhalable	5 mg/m3
	1 mg/m3 Fume (TWA)	.02mg/m3 Respirable	

**Engineering Controls:** Not normally required if applied outdoors as directed. If used indoors, use adequate ventilation to keep the airborne concentrations below the recommended exposure standard.

**Personal Protective Measures:**

**Face and Eye:** Safety glasses or goggles.

**Skin/body:** Appropriate outdoor work clothing should be considered. Wash hands after handling. Use chemical resistant gloves for best protection.

**Respiratory:** For normal applications, engineering controls and NIOSHA/MSHA approved dust masks.

## 9. Physical and Chemical Properties

<b>Physical State:</b>	Solid	<b>Color:</b>	Light pink
<b>Appearance:</b>	Powder	<b>Vapor Pressure:</b>	<0.0000001 kaPa at 25 deg. C
<b>Odor:</b>	Slight	<b>Vapor Density:</b>	Not established
<b>Odor Threshold:</b>	Not established	<b>Relative Density:</b>	Not established
<b>pH:</b>	7.7-7.9 (5% solution)	<b>Solubility(ies):</b>	Not established
<b>Melting/Freezing Point:</b>	1292 degrees F	<b>Partition Coefficient:</b>	
<b>Boiling Point and Range:</b>	1562 degrees F	<b>n-octano/water:</b>	Not established
<b>Flash Point:</b>	Not established	<b>Auto-ignition Temp:</b>	Not established
<b>Evaporation Rate:</b>	Not established	<b>Decomposition Temp:</b>	Not established
<b>Flammability (solid, gas):</b>	Not established	<b>Viscosity:</b>	Not established
<b>Flammability Limits:</b>	Not established	<b>Decomposition Temp:</b>	None
	<b>Upper:</b> n/a	<b>Bulk Density:</b>	70-74 lb/ft3
	<b>Lower:</b> n/a	<b>Specific Gravity (H2O=1):</b>	Not established

## 10. Stability and Reactivity

<b>Reactivity:</b>	Stable under recommended storage and use conditions.
<b>Chemical Stability:</b>	Stable under recommended storage and use conditions.
<b>Hazardous Reactions:</b>	None under normal use.
<b>Conditions to Avoid:</b>	Contact with incompatible materials. Avoid dispersal of dust in the air.
<b>Incompatible Materials:</b>	Strong oxidizers (i.e., liquid chlorine, concentrated oxygen, sodium hypochlorine calcium hypochlorite, etc. as these present an explosion hazard.)
<b>Hazardous Decomposition:</b>	None known.

## 11. Toxicological Information

<b>Likely Routes:</b>	Inhalation, skin, eye contact, ingestion.
<b>Toxicological Effects</b>	
<b>Immediate Exposure:</b>	Oral - LD 100: 305 mg/kg. Other - LD 100: 146 mg/kg, LD 50: 64 mg/kg. Possible allergic reaction. Eye, respiratory, skin irritation may occur.
<b>Long Term Exposure:</b>	Prolonged inhalation may cause damage to organs and cause respiratory irritation.
<b>Toxicity Measures (data):</b>	No applicable information found.
<b>Toxicity Symptoms:</b>	Possible irritation, and/or breathing difficulty.
<b>Known Carcinogenicity:</b>	None listed in OSHA, NTP, IARC, or ACGIH.

## 12. Ecological Information

*\*Refer the reader to Section 8 (Exposure Controls/Personal Protection) of the SDS.*

<b>Eco toxicity Data:</b>	Acute hazard to aquatic environment.
Fish Product	LC 50 (Fathead minnow, 99.7-52.7 mg/l, 192 hours.)
Crustacean	EC 50 (Water flea, 7.09-9.36 mg/l, 48 hours.)
<b>Persistence and Degradability:</b>	No applicable information found.
<b>Bioaccumulative Potential:</b>	No applicable information found.
<b>Leaching Risk:</b>	No applicable information found.
<b>Other Adverse Effects:</b>	Very toxic to aquatic life with long lasting effects.

### 13. Disposal Considerations

**Waste Disposal Methods:** Conform with applicable local and federal regulations. Do not dispose of into drains or in or near water sources.

**Contaminated Packaging:** Dispose of in accordance with local regulations. Do not reuse container.

### 14. Transport Information

**DOT** (Land) No restrictions, not regulated.

**TDG** (Rail) No restrictions, not regulated.

**IATA** (Air) *Listed as Marine Pollutant, UN3077, Class 9, Label(s) 9, Packing Group III, passenger and cargo aircraft forbidden.*

**IMDG** (Sea) *Listed as Marine Pollutant, UN3077, Class 9, Label(s) 9, Packing Group III,*

**\*U.S. Surface Freight Classification: Fertilizing compounds (mfg. fertilizers), NOI; Dry (NMFC 68140, Sub 5; Class 50)**

### 15. Regulatory Information (non-mandatory)

**US Fed.:**

This product is known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the US EPA TSCA Inventory List.

**CERCLA Hazardous Substance List (40 CFR 302.4):** Listed.

**SARA 302 and 304:** Not regulated and/or listed.

**SARA 311/312 Hazardous Chemical:** Yes

**OSHA Specifically Regulated Substances (29 CFR 1910.10001-1050):** Not listed.

**California Proposition 65** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### 16. Other Information

**NFPA:** Health: 1 Flammability: 0 Reactivity: 1  
Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control, all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT.

