

# **Safety Data Sheet**

# Manganese Acetate Tetrahydrate Technical

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Manganese Acetate Tetrahydrate Technical

Synonyms/Generic Names: Manganese (II) Acetate; Manganous Acetate; Manganese Diacetate

Tetrahydrate

**Product Number: 3320** 

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** Irritant

Target Organs: Not Available

Signal Word: Warning

Pictograms: Not Applicable

**GHS Classification:** 

Eye irritation	Category 2B
Specific target organ toxicity-single exposure-respiratory system	Category 3
Acute toxicity – Oral	Category 5

#### **GHS Label Elements, including precautionary statements:**

#### **Hazard Statements:**

H320	Causes eye irritation.
H335	May cause respiratory irritation.

#### **Precautionary Statements:**

P264	Wash hands thoroughly after handling.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

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### **Potential Health Effects**

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

### **NFPA Ratings**

Health	2
Flammability	0
Reactivity	0
Specific hazard	Not Available

# **HMIS Ratings**

Health	2
Fire	0
Reactivity	0
Personal	Not Available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Manganese Acetate Tetrahydrate	>90	6156-78-1	211-334-3	C <sub>4</sub> H <sub>5</sub> MnO <sub>4</sub> •4H <sub>2</sub> O	245.09 g/mol

# 4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention.
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and
	wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention.

# **5. FIRE-FIGHTING MEASURES**

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire. Cool	
extinguishing media	unopened containers with water.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	Emits toxic fumes (manganese oxides) under fire conditions. (See also	
the chemical	Stability and Reactivity section).	

# **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and	See section 8 for recommendations on the use of personal protective equipment.
emergency procedures	
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to federal/national or local reporting requirements.
Methods and materials for	Sweep up and place in a suitable container for disposal. Clean surfaces
containment and cleaning up	thoroughly with water to remove residual contamination. Dispose of all
	waste and cleanup materials in accordance with regulations.

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#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Manganese Acetate	5 mg/m <sup>3</sup>	CEIL	OSHA
	0.02 mg/m <sup>3</sup>	TWA	ACGIH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

#### **Personal Protection**

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Light red to pink solid.
Odor	Not Available
Odor threshold	Not Available
рН	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	1.45 g/cm <sup>3</sup>
Solubility (ies)	Not Available

Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

# 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Manganese oxides.

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

,	
Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral – rat – 3730 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Prolonged exposure may cause temporary irritation.	
Eyes	Irritation, redness, watering eyes, itchiness.	
Respiratory	Irritation, coughing, wheezing.	
Ingestion	Nausea, vomiting, coughing.	

Chronic Toxicity	Prolonged inhalation may be harmful. Overexposure to manganese compounds has been reported to cause nervous system and respiratory disorders.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

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Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

#### 13. DISPOSAL CONSIDERATIONS

Waste Product or	Users should review their operations in terms of the applicable federal/national or
Residues	local regulations and consult with appropriate regulatory agencies if necessary before
	disposing of waste product or residue.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

### 14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

### 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	No SARA Hazard
SARA 312	No SARA Hazard
SARA 313	Not Listed
WHMIS Canada	Not Listed

### 16. OTHER INFORMATION

Revision	Date
Original	10/20/2017

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