

# **SAFETY DATA SHEET**

Revision Date 19-Mar-2018 Revision Number 1

# 1. Identification

Product Name Manganese(II) fluoride

Cat No.: 11527

**CAS-No** 7782-64-1

Synonyms No information available

**Recommended Use** Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

## Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

Fax: 800-322-4757 Email: tech@alfa.com

www.alfa.com

## **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Acute dermal toxicity

Category 4

Acute Inhalation Toxicity - Dusts and Mists

Category 4

Skin Corrosion/irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

## Label Elements

# Signal Word

Warning

#### **Hazard Statements**

Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation Harmful if inhaled

Revision Date 19-Mar-2018

May cause respiratory irritation



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Manganese fluoride (MnF2)	7782-64-1	99	

# 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Obtain medical attention.

**Inhalation** Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial

respiration. Obtain medical attention.

**Ingestion** Clean mouth with water. Get medical attention.

Revision Date 19-Mar-2018

Most important symptoms and

effects

No information available.

**Notes to Physician** Treat symptomatically

## Fire-fighting measures

Use extinguishing measures that are appropriate to local circumstances and the **Suitable Extinguishing Media** 

surrounding environment.

**Unsuitable Extinguishing Media** No information available

No information available Flash Point Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Non-combustible.

## **Hazardous Combustion Products**

Gaseous hydrogen fluoride (HF)

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

**Flammability** Physical hazards Health Instability N/A 2

## Accidental release measures

Ensure adequate ventilation. Use personal protective equipment. **Personal Precautions** 

See Section 12 for additional ecological information. **Environmental Precautions** 

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up

## 7. Handling and storage

Avoid contact with skin and eyes. Do not breathe dust. Handling

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Storage

## 8. Exposure controls / personal protection

# **Exposure Guidelines**

Component	Component ACGIH TLV		NIOSH IDLH	Mexico OEL (TWA)	
Manganese fluoride (MnF2)	TWA: 2.5 mg/m <sup>3</sup> TWA: 0.02	(Vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup> IDLH: 250	TWA: 2.5 mg/m <sup>3</sup> TWA: 0.2	
	mg/m³	(Vacated) Ceiling: 5 mg/m <sup>3</sup>	mg/m³	mg/m³	
TWA: 0.1 mg/m <sup>3</sup>		Ceiling: 5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	_	
	_		STEL: 3 mg/m <sup>3</sup>		

## Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

## Manganese(II) fluoride

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eve/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State Powder Solid
Appearance Light red

Odor

No information available
Odor Threshold
No information available
PH
No information available
No information available

Melting Point/Range856 °C / 1572.8 °FBoiling Point/RangeNo information availableFlash PointNo information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Specific GravityNo information availableSolubilityNo information available

Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** 

**Decomposition Temperature**No information available

Viscosity Not applicable

Molecular FormulaMn F2Molecular Weight92.94

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Hygroscopic.

Conditions to Avoid Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Gaseous hydrogen fluoride (HF)

**Hazardous Polymerization** No information available.

Hazardous Reactions None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

No information available **Toxicologically Synergistic** 

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available Irritation

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Manganese fluoride (MnF2)	7782-64-1	Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

Respiratory system STOT - single exposure

STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects, both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

# 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a

> hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

Not regulated DOT Not regulated TDG Not regulated IATA

IMDG/IMO Not regulated

# 15. Regulatory information

#### **International Inventories**

Component	TSCA	DSL	NDSL	<b>EINECS</b>	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Manganese fluoride (MnF2)	Х	-	Χ	231-960-0	-		-	Χ	-	Χ	Х

#### Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b) Not applicable

**SARA 313** 

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Manganese fluoride (MnF2)	7782-64-1	99	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors	
Manganese fluoride (MnF2)	X		-	

**OSHA** Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know

Regulations

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Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island			
Manganese fluoride	-	X	X	X	X			
(MnF2)								

### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

Manganese(II) fluoride

Revision Date 19-Mar-2018

### Other International Regulations

Mexico - Grade No information available

16. Other information

Health, Safety and Environmental Department **Prepared By** 

Email: tech@alfa.com

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19-Mar-2018 **Revision Date** 19-Mar-2018 **Print Date** 

SDS authoring systems update, replaces ChemGes SDS No. 7782-64-1/2. **Revision Summary** 

## **Disclaimer**

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**End of SDS**