

## SAFETY DATA SHEET

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification			
Product Name	Manganese(II) sulfide		
Cat No. :	12835		
CAS-No Synonyms	18820-29-6 Manganese monosulfide		
Recommended Use Uses advised against Details of the supplier of the s	Laboratory chemicals. Food, drug, pesticide or biocidal product use. afety data sheet		
Company Alfa Aesar Thermo Fisher Scientific Chemic 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com			
	<b>r</b> ⁄londay-Friday, 8am-7pm EST), call (800) 343-0660. I Carechem 24 at (866) 928-0789.		

2. Hazard(s) identification

Classification Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Manganese sulfide (MnS)	18820-29-6	99.9	

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. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.			
Ingestion	Clean mouth with water. Get medical attention.			
Most important symptoms and	No information available.			
effects Notes to Physician	Treat symptomatically			

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foar	y chemical. Chemical foam.
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Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Sulfur oxides.

### **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.

<u>NFPA</u> Health 0	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	n. Use personal protective equinal Ecological Information.	ipment as required.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

## 7. Handling and storage

Handling

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

### Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.

## 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Manganese sulfide (MnS)	TWA: 0.02 mg/m <sup>3</sup>	(Vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
	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>	

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/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.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

	r nysical and chemical properties
Physical State	Solid
Appearance	Red
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Mn S
Molecular Weight	87

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Air sensitive.
Conditions to Avoid	Excess heat. Exposure to air. Incompatible products.
Incompatible Materials	Acids, Strong oxidizing agents, Finely powdered metals
Hazardous Decomposition Products Sulfur oxides	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

### Acute Toxicity

Product Information       No acute toxicity information is available for this product         Component Information       No information available         Toxicologically Synergistic       No information available         Products       Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Irritation	No information available
Sensitization	No information available

Carcinogenicity

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Manganese sulfide (MnS)	18820-29-6	Not listed         Not listed         Not listed         Not				Not listed
Mutagenic Effects		No information available				
Reproductive Effect	s	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	nd No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effec	cts	The toxicological properties have not been fully investigated.				

## 12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Manganese sulfide (MnS)	Not listed	LC50: > 13 mg/L, 96h semi-static (Oncorhynchus mykiss)	Not listed	Not listed
		Шукізэ)		

Persistence and Degradability	Insoluble in water
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

# Use 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
DOT	Not regulated
DOT TDG	Not regulated
<u>IATA</u>	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Manganese sulfide (MnS)	18820-29-6	Х	ACTIVE	-

### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Manganese sulfide (MnS)	18820-29-6	Х	-	242-599-3	-	Х	-	Х	KE-23046

### U.S. Federal Regulations

### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Manganese sulfide (MnS)	18820-29-6	99.9	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 sulfide (MnS)	Х		-

### OSHA - Occupational Safety and Not applicable

Health Administration

### 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 sulfide (MnS)	-	Х	Х	Х	-

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 18820-29-6/2.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## End of SDS