

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name : SQM Manganese 16%
Product code : 5722
Product form : Substance

1.2. Relevant identified uses of the substance or mixture and advised against

Intended use : Animal feed nutritional supplement
Uses advised against : None identified

1.3. Details of the supplier of the safety data sheet

QualiTech, LLC. Phone: 1-800-328-5870
318 Lake Hazeltine Drive Web: qualitechco.com
Chaska, MN 55318

1.4. Emergency telephone number

Emergency number : Infotrack (800) 535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Eye Irritant 2A H319
Acute Toxicity Inhalation 5 H333
Acute Toxicity Oral 5 H303

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Hazard statement (GHS-US) : H319 Causes serious eye irritation
H333 May be harmful if inhaled
H303 May be harmful if swallowed

Signal word (GHS-US) : **Warning**

Precautionary statements (GHS-US) : P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P243 Take precautionary measures against static discharge
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection

- P302+P352 IF ON SKIN: Wash with plenty of soap and water
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing
 P312 Call a POISON CENTER/doctor/physician if you feel unwell

2.3. Other Hazards

Other hazards not contributing to the classification : May form combustible dust concentrations in air

2.4. Unknown acute toxicity (GHS-US) : No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	CAS #	%
Manganese	10034-96-5	16.0
Silicon Dioxide (crystalline content < 1% by weight)	7631-86-9	10-15
Polysaccharide	Not available	<10

Specific chemical identity(ies) and/or exact percentage(s) of composition may be withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. Supply oxygen if necessary
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/attention
- First-aid measures after eye contact : IF IN EYES: Immediately flush with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical care
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory tract irritation, possibly severe
- Symptoms/injuries after skin contact : May cause mild skin irritation
- Symptoms/injuries after eye contact : Eye irritation, may cause serious eye irritation
- Symptoms/injuries after ingestion : May irritate digestive tract, possibly severe

4.3. Indication of any immediate medical attention and special treatment needed

Call physician and Poison Control Center immediately

SECTION 5: Firefighting measures

5.1. Extinguishing Media

- Suitable extinguishing media : Any means appropriate for surrounding conditions such as water spray, carbon dioxide, dry chemical, or foam
- Unsuitable extinguishing media : Avoid water stream to prevent dust liberation

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Product burns only with great difficulty
- Explosion hazard : May form combustible dust concentrations in air
- Reactivity : No data available

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection
- Protection during firefighting : Do not enter area without proper protective equipment, including respiratory protection

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Restrict area and proceed with clean up using appropriate protective equipment. Dispose of material in accordance with all applicable municipal, state, and federal regulations

6.1.1 For non-emergency personnel

- Protective equipment : Dust respirator, suitable protective clothing, suitable eye protection
- Emergency procedures : Avoid buildup of airborne dust

6.1.2 For emergency responders

- Protective equipment : Equip clean up crew with proper protection
- Emergency procedures : Ensure proper ventilation to prevent buildup of airborne dust

6.2. Environmental precautions

- Avoid release to the environment

6.3. Methods and material for containment and cleaning up

- For containment : Use appropriate tools to put spilled solid in a conventional waste disposal container
- Methods for cleaning up : Use appropriate tools to put spilled solid in a conventional waste disposal container

6.4. Reference to other sections

- : See heading 8. Exposure controls and personal protection

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling : Do not ingest. Do not breathe dust. Wear suitable protective clothing

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a cool, dry, well-ventilated area. Protect from physical damage. Protect from exposure to fire
- Incompatible products : Store away from strong oxidizers
- Incompatible materials or conditions : No additional information available

7.3. Specific end use(s)

- No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Manganese (10034-96-5)	
NIOSH REL, TWA (mg/m ³)	1
OSHA PEL, TWA (mg/m ³)	5
NIOSH IDLH (mg/m ³)	500

Silicon Dioxide (7631-86-9)	
NIOSH REL, TWA (mg/m ³)	6
OSHA PEL, TWA (mg/m ³)	6
NIOSH IDLH (mg/m ³)	3,000

Silicon Dioxide (7631-86-9)	
NIOSH REL, TWA (mg/m ³)	6
OSHA PEL, TWA (mg/m ³)	6
NIOSH IDLH (mg/m ³)	3,000

8.2. Exposure Controls

Appropriate engineering controls

: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels low

Personal protective equipment

: Protective eye glasses or chemical safety goggles, dust respirator, suitable protective clothing, impervious gloves



Hand protection

: Gloves to prevent dust exposure to skin

Eye protection

: Chemical goggles or safety glasses

Skin and body protection

: Wear suitable protective clothing

Respiratory protection

: Appropriate respirator for airborne dust

Other information

: Prevent the buildup of airborne dust. Do not eat, drink, or smoke during use

SECTION 9: Physical and chemical properties

Physical state	: <u>Solid</u>
Appearance	: Powder to granular
Molecular mass	: No data available
Color	: White to grey
Odor	: Odorless
Odor Threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Density	: No data available
Solubility	: Partially soluble in water

Log Pow : No data available
 Log Kow : No data available
 Viscosity, kinematic : No data available
 Viscosity, dynamic : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available
 Explosive limits : No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7)

10.3. Possibility of hazardous reactions

May react with strong oxidizers

10.4. Conditions to avoid

Contact with strong oxidizers

10.5. Incompatible materials

Strong oxidizers

10.6. Hazardous decomposition products

Thermal decomposition products may include toxic and hazardous oxides of zinc and sulfur

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Manganese (10034-96-5)	No data available
Silicon Dioxide (7631-86-9)	LD50 oral rat, >5,000 mg/kg
Polysaccharide	No data available

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Serious eye irritant (Category 2A)
 Respirator or skin sensitization : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 Specific target organ toxicity (single exposure) : Not classified
 Specific target organ toxicity (repeated exposure) : Not classified
 Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met
 Symptoms/injuries after inhalation : Irritation
 Symptoms/injuries after skin contact : Not available
 Symptoms/injuries after eye contact : Serious irritation

Symptoms/injuries after ingestion : Irritation, may be severe
 Likely routes of exposure : Eye contact, ingestion, inhalation
 Chronic symptoms : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of product in accordance with all applicable laws and regulations.

Ecology - waste materials : Avoid release to the environment

SECTION 14: Transport information

In accordance with DOT

Not a dangerous good in sense of transport regulations (US)

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Transport by air

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Manganese (10034-96-5)

TSCA	Listed on the United States Toxic Substances Act (TSCA) inventory
Section 302 (EHS) TPQ	Does not contain any components with a SARA 302 RQ.
Section 304 (EHS) RQ	Does not contain any components with a section 304 EHS RQ.
CERCLA RQ	Does not contain any components with a CERCLA RQ.
Section 313	Reporting thresholds not exceeded.

Silicon Dioxide (7631-86-9)

TSCA	Listed on the United States Toxic Substances Act (TSCA) inventory
Section 302 (EHS) TPQ	Does not contain any components with a SARA 302 RQ.
Section 304 (EHS) RQ	Does not contain any components with a section 304 EHS RQ.
CERCLA RQ	Does not contain any components with a CERCLA RQ.
Section 313	Reporting thresholds not exceeded.

Polysaccharide

TSCA	No additional information available.
Section 302 (EHS) TPQ	No additional information available.
Section 304 (EHS) RQ	No additional information available.
CERCLA RQ	No additional information available.
Section 313	No additional information available.

15.2. International regulations

Manganese (10034-96-5)

Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.
Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

Silicon Dioxide (7631-86-9)

Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.
Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

Polysaccharide

Canada	No additional information available.
European Union	No additional information available.
Australia	No additional information available.
China	No additional information available.
Other	No additional information available.

15.3. US State Regulations

No additional information available.

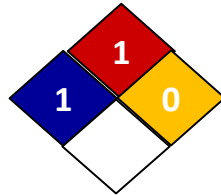
SECTION 16: Other information

Other information

: None

NFPA/HMIS

:



Health	1
Fire	1
Reactivity	0
Personal Protection	I

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall QualiTech, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even is QualiTech, Inc. has been advised of the possibility of such damages