

# MAS Granular Fertilizer – All Analyses

Safety Data Sheet

Version: 1.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** MAS Granular Fertilizer – All Analyses

**Other means of identification:** Granular fertilizers including all chemical, partially sulfur coated, 100% polymer or sulfur coated nutrients, with and without micronutrients.

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Fertilizer

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

MAS

P.O. Box 732

Newberg, OR 97132

### 1.4. Emergency Telephone Number

**Emergency Number** : 1-800-535-5053

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call INFOTRAC  
Day or Night

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

STOT SE 3 H335

Aquatic Acute 3 H402

Aquatic Chronic 3 H412

### 2.2. Label Elements

#### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Warning

##### Hazard Statements (GHS-US)

: H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

##### Precautionary Statements (GHS-US)

: P261 - Avoid breathing dust  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective gloves, protective clothing  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304+P340 - IF INHALED: Remove person 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. Continue rinsing  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P321 - Specific treatment (see Section 4)

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P332+P313 - If skin irritation occurs: Get medical advice/attention  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse P362+P364 -  
Take off contaminated clothing and wash it before reuse P403+P233 -  
Store in a well-ventilated place. Keep container tightly closed P405 - Store  
locked up  
P501 - Dispose of contents/container according to local, regional, national, and  
international regulations

### 2.3. Other Hazards

**Other Hazards:** No additional information available

### 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	Product identifier	%	Classification (GHS-US)
Urea	(CAS No) 57-13-6	0.1 - 98	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Sulfuric acid, dipotassium salt	(CAS No) 7778-80-5	0.1 - 95	Not classified
Diammonium phosphate	(CAS No) 7783-28-0	0.1 - 95	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335 Aquatic Acute 3, H402
Potassium chloride	(CAS No) 7447-40-7	0.1 - 95	Aquatic Acute 3, H402
Monoammonium phosphate	(CAS No) 7722-76-1	0.1 - 95	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Ammonium sulfate	(CAS No) 7783-20-2	0.1 - 95	Aquatic Acute 2, H401
Limestone	(CAS No) 1317-65-3	0.1 - 95	Not classified
Sulfur	(CAS No) 7704-34-9	0.1 - 20	Comb. Dust, H232 Flam. Sol. 2, H228 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
Iron oxide (Fe2O3)	(CAS No) 1309-37-1	0.1 - 10	Not classified
Urea, polymer with formaldehyde	(CAS No) 9011-05-6	0.1 - 10	Not classified
Magnesium sulfate	(CAS No) 7487-88-9	0.1 - 10	Skin Sens. 1, H317
Ferrous sulfate	(CAS No) 7720-78-7	0.1 - 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400
Manganese oxide (Mn3O4)	(CAS No) 1317-35-7	0.1 - 10	Not classified
Sulfate of Potash-Magnesia	(CAS No) 14977-37-8	0.1 - 10	Not classified

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** If medical advice is needed, have product container or label at hand.

**First-aid Measures After Inhalation:** If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists.

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**First-aid Measures After Skin Contact:** Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

**First-aid Measures After Eye Contact:** Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion:** If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Not considered flammable but will burn at high temperatures. Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** None known.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Decomposes above 132 °C (270 °F). Under conditions of fire this material may produce: Ammonia. Nitrogen oxides. Biuret. Cyanuric acid.

**Explosion Hazard:** May form explosive compounds if mixed with: Calcium hypochlorite. Sodium hypochlorite. Nitrates. Nitric acid. Perchloric acid. Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

**Reactivity:** This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard).

### 5.3. Advice for Firefighters

**Firefighting Instructions:** Not flammable.

**Protection During Firefighting:** Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

**Other information:** Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Handle in accordance with good industrial hygiene and safety practice. This material becomes slippery when wet.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection.

**Emergency Procedures:** Collect as any solid. Ventilate area. Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection.

**Emergency Procedures:** If possible, stop flow of product. Contain and collect as any solid. Ventilate area. Evacuate unnecessary personnel.

### 6.2. Environmental Precautions

Avoid release to the environment.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain and collect as any solid. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

**Methods for Cleaning Up:** Recover the product by vacuuming, shoveling or sweeping. Avoid generation of dust during clean-up of spills. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Material may be used if uncontaminated.

### 6.4. Reference to Other Sections No additional information available

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** This material becomes slippery when wet.

**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment. Avoid creating or spreading dust.

**Hygiene Measures:** Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

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### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

**Prohibitions on mixed storage:** Store away from: Ammonium nitrate. Refer to Section 10 on Incompatible Materials.

**Special Rules on Packaging:** Corrosive to copper and its alloys.

### 7.3. Specific End Use(s)

Fertilizer.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Limestone (1317-65-3)		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) (1309-37-1)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	2500 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Exposure Controls

**Appropriate Engineering Controls**

: Ensure all national/local regulations are observed.

**Personal Protective Equipment**

: Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. For particulates and dust: Safety glasses.



**Hand Protection**

: protective gloves.

**Eye Protection**

: Safety glasses.

**Skin and Body Protection**

: Wear suitable protective clothing.

**Respiratory Protection**

: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

**Environmental Exposure Controls**

: Ensure adequate ventilation, especially in confined areas.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Granules. Multi-colored.
Color	: White
Odor	: Slight. Pungent.
Odor Threshold	: No data available
pH	: No data available
pH solution	: 10 %
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
Relative Density	: No data available
Density	: 45 (45 - 65) lb/ft <sup>3</sup>
Solubility	: Water: Moderately

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Partition coefficient: n-octanol/water : No data available

Viscosity : No data available

9.2. Other Information No additional information available

### SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard).

**10.2 Chemical Stability:** Stable at standard temperature and pressure.

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to Avoid:** Protect from moisture. Keep away from heat.

**10.5 Incompatible Materials:** May form explosive mixture if in contact with strong acid such as nitric or perchloric acids. Avoid contact with : Strong oxidizers. Strong acids, bases. Nitrates. Hypochlorites. Perchlorates. Chlorides. Corrosive to copper and its alloys.

**10.6 Hazardous Decomposition Products:** Under conditions of fire this material may produce: Nitrogen oxides. Ammonia. Biuret. Carbon oxides (CO, CO<sub>2</sub>). Formaldehyde.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

<b>Sulfuric acid, dipotassium salt (7778-80-5)</b>	
LD50 Oral Rat	6600 mg/kg
ATE (Oral)	6,600.00 mg/kg body weight
<b>Diammonium phosphate (7783-28-0)</b>	
LD50 Oral Rat	6500 mg/kg
LD50 Dermal Rabbit	> 7950 mg/kg
ATE (Oral)	6,500.00 mg/kg body weight
<b>Potassium chloride (7447-40-7)</b>	
LD50 Oral Rat	2600 mg/kg
ATE (Oral)	2,600.00 mg/kg body weight
<b>Monoammonium phosphate (7722-76-1)</b>	
LD50 Oral Rat	5750 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
ATE (Oral)	5,750.00 mg/kg body weight
<b>Ammonium sulfate (7783-20-2)</b>	
LD50 Oral Rat	> 2000 mg/kg
<b>Sulfur (7704-34-9)</b>	
LD50 Oral Rat	> 3000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 9.23 mg/l/4h
<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>	
LD50 Oral Rat	> 10000 mg/kg
<b>Urea, polymer with formaldehyde (9011-05-6)</b>	
LC50 Inhalation Rat	> 167 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>Ferrous sulfate (7720-78-7)</b>	
LD50 Oral Rat	237 mg/kg
ATE (Oral)	237.00 mg/kg body weight

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>	
IARC group	3

**Reproductive Toxicity:** Not classified

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**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** If a large quantity has been ingested : Abdominal pain. Diarrhea. Nausea. Vomiting.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Sulfuric acid, dipotassium salt (7778-80-5)</b>	
LC50 Fish 1	653 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
EC50 Daphnia 1	890 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Diammonium phosphate (7783-28-0)</b>	
LC50 Fish 1	26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC 50 Fish 2	24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
<b>Potassium chloride (7447-40-7)</b>	
LC50 Fish 1	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Ammonium sulfate (7783-20-2)</b>	
LC50 Fish 1	5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
<b>Sulfur (7704-34-9)</b>	
LC50 Fish 1	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC 50 Fish 2	14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Magnesium sulfate (7487-88-9)</b>	
LC50 Fish 1	2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Ferrous sulfate (7720-78-7)</b>	
LC50 Fish 1	925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 Daphnia 1	152 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Urea (57-13-6)</b>	
LC50 Fish 1	16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

### 12.2. Persistence and Degradability

<b>MAS Granular Fertilizer – All Analyses</b>	
<b>Persistence and Degradability</b>	May cause long-term adverse effects in the environment. This product is water soluble and eventually biodegrades into elemental nitrogen. Excess nitrogen and nitrates in a body of water will contribute to eutrophication with visible effects such as toxic algae bloom.

### 12.3. Bioaccumulative Potential

<b>Diammonium phosphate (7783-28-0)</b>	
BCF fish 1	(no bioaccumulation expected)
<b>Monoammonium phosphate (7722-76-1)</b>	
BCF fish 1	(no bioaccumulation expected)

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<b>Ammonium sulfate (7783-20-2)</b>	
Log Pow	-5.1 (at 25 °C)
<b>Urea (57-13-6)</b>	
BCF fish 1	< 10
Log Pow	-1.59 (at 25 °C)

**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**

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Waste Disposal Recommendations:** Place in an appropriate container and dispose of the contaminated material at a licensed site.

**Additional Information:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

### SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT** Not regulated for transport

**14.2 In Accordance with IMDG** Not regulated for transport

**14.3 In Accordance with IATA** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

**15.1 US Federal Regulations**

<b>MAS Granular Fertilizer – All Analyses</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Sulfuric acid, dipotassium salt (7778-80-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Diammonium phosphate (7783-28-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Potassium chloride (7447-40-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Monoammonium phosphate (7722-76-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Ammonium sulfate (7783-20-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Limestone (1317-65-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sulfur (7704-34-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Urea, polymer with formaldehyde (9011-05-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Magnesium sulfate (7487-88-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Ferrous sulfate (7720-78-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Manganese oxide (Mn<sub>3</sub>O<sub>4</sub>) (1317-35-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Urea (57-13-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

**15.2 US State Regulations**

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U.S. – CA Proposition 65: Not listed

### Ammonium sulfate (7783-20-2)

U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Limestone (1317-65-3)

U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Sulfur (7704-34-9)

U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)

U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Ferrous sulfate (7720-78-7)

U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Manganese oxide (Mn<sub>3</sub>O<sub>4</sub>) (1317-35-7)

U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 05/1/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Comb. Dust	Combustible Dust
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Sol. 2	Flammable solids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H228	Flammable solid
H232	May form combustible dust concentrations in air
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life



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H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

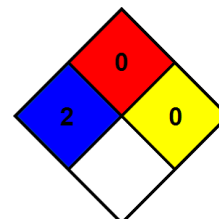
0 - Materials that will not burn.

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

### **NFPA Fire Hazard**

### **NFPA Reactivity**

### **NFPA Health Hazard**



*IMPORTANT: The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof; and you should make your investigation to determine safety for the use you contemplate. MAS makes no warranty of merchantability of fitness for a particular use, nor is there any other express or implied warranty except as may be specifically provided otherwise on product. MAS assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage, to vendees, users or third parties, caused by the material and MAS's responsibility is limited to replacement of, or repayment of, the purchase price for the material(s) with respect to which any damages are claimed. All vendees or users assume all risk associated with the use of the material(s).*