

EMERGENCY NUMBER (CHEMTEL): 1-800-255-3924

The Sanctuary, INC

Lady Lake, FL 32158

Version 1.0 | Effective Date: December 1, 2021

## Sanctuary 12-2-12 Granular Fertilizer -

## **SECTION 1: IDENTIFICATION**

1.1. Product Identifier

Product Form: Mixture

**Product Name:** Sanctuary 12-2-12 Granular Fertilizer

**Other means of identification:** Granular fertilizers including natural, organic and some chemical fertilizer.

1.2. Intended Use of the Product

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

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

The Sanctuary, Inc.

PO Box 656

Winter Park, CO 80482

**1.4.** Emergency Telephone Number Emergency Number: 1-800-255-3924

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTEL 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



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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)

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



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Magnesium sulfate	(CAS No) 7487-88-9	0.1 - 10	Skin Sens. 1, H317
Manganese Sulfate (MnSO4)	(CAS No) 7785-87-7	0.1 - 10	Not classified
Urea	(CAS No) 57-13-6	10 - 25	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Sulfate of Potash	(CAS No) 14977-37-8	0.1 - 10	Not classified
Limestone	(CAS No) 1317-65-3	2-6	Not classified
Hydrolyzed Animal Protein	(CAS No) 9015-54-7	50-80	Comb. Dust, H232 Flam. Sol. 2, H228 Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Wheat	(CAS No) 9005-25-8	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.

**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.



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**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.



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**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.

#### 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/m³)	5 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³	
Iron oxide (Fe	Iron oxide (Fe2O3) (1309-37-1)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³	
USA IDLH	US IDLH (mg/m³)	2500 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³	

### 8.2. Exposure Controls

**Appropriate Engineering Controls** 

**Personal Protective Equipment** 

- : Ensure all national/local regulations are observed.
- : Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. For particulates and dust: Safety glasses.









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**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: Tan to BrownOdor: Slight. Pungent.Odor Threshold: No data availablepH: 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 : No data available Flammability (solid, gas) **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 Partition coefficient: n-octanol/water : No data available Viscosity : No data available

9.2. Other Information No additional information available



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## 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, CO2). Formaldehyde.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Sulfuric acid, dipotassium salt (7778-80-5)			
LD50 Oral Rat	6600 mg/kg		
ATE (Oral)	6,600.00 mg/kg body weight		
Diammonium phosphate (7783-28-0)	Diammonium phosphate (7783-28-0)		
LD50 Oral Rat	6500 mg/kg		
LD50 Dermal Rabbit	> 7950 mg/kg		
ATE (Oral)	6,500.00 mg/kg body weight		
Potassium chloride (7447-40-7)			
LD50 Oral Rat	2600 mg/kg		
ATE (Oral)	2,600.00 mg/kg body weight		
Monoammonium phosphate (7722-7	Monoammonium phosphate (7722-76-1)		
LD50 Oral Rat	5750 mg/kg		
LD50 Dermal Rabbit	> 7940 mg/kg		
ATE (Oral)	5,750.00 mg/kg body weight		
Ammonium sulfate (7783-20-2)			
LD50 Oral Rat	> 2000 mg/kg		
Sulfur (7704-34-9)			
LD50 Oral Rat	> 3000 mg/kg		



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LD50 Dermal Rabbit	> 2000 mg/kg	
LC50 Inhalation Rat	> 9.23 mg/l/4h	
Iron oxide (Fe2O3) (1309-37-1)		
LD50 Oral Rat	> 10000 mg/kg	
Urea, polymer with formaldehyde (9011-05-6)		
LC50 Inhalation Rat	> 167 mg/m³ (Exposure time: 4 h)	
Ferrous sulfate (7720-78-7)		
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.

Iron oxide (Fe2O3) (1309-37-1)	
IRAC group	3

Reproductive Toxicity: Not classified.

**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

Sulfuric acid, dipotassium salt (7778-80-5)		
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	C 50 Fish 2 3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
Diammonium phosphate (7783-28-0)		
LC50 Fish 1	26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	



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LC 50 Fish 2	24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
Potassium chloride (7447-40-7)	1	
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])	
Ammonium sulfate (7783-20-2)		
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])	
Sulfur (7704-34-9)		
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])	
Magnesium sulfate (7487-88-9)		
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])	
Ferrous sulfate (7720-78-7)		
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])	
Urea (57-13-6)		
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



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

#### 12.3. Bioaccumulative Potential

Diammonium phosphate (7783-28-0)			
BCF fish 1	(no bioaccumulation expected)	(no bioaccumulation expected)	
Monoammonium phosphate (7722-76-1)			
BCF fish 1	(no bioaccumulation expected)	(no bioaccumulation expected)	
Ammonium sulfate (7783-20-2)			
Log Pow	Log Pow -5.1 (at 25 °C)		
Urea (57-13-6)			
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



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## SECTION 15: REGULATORY INFORMATION

# 15.1 US Federal Regulations

Sanctuary Granular Fertilizer – All Analyses		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
Sulfuric acid, dipotassium salt (7778-80-5)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Diammonium phosphate (7783-28-0)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Potassium chloride (7447-40-7)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Monoammonium phosphate (7722-76-1)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Ammonium sulfate (7783-20-2)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Limestone (1317-65-3)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Sulfur (7704-34-9)		
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory	
Iron oxide (Fe2O3) (1309-37-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Urea, polymer with formaldehyde (9011-05-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Magnesium sulfate (7487-88-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Ferrous sulfate (7720-78-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Manganese oxide (Mn3O4) (1317-35-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Urea (57-13-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		



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### 15.2 US State Regulations

#### 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 (Fe2O3) (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 (Mn3O4) (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:** 05/13/2015

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



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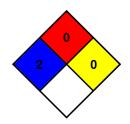
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Aquatic Acute 3			Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3			Hazardous to the aquatic environment - Chronic Hazard Category 3
Comb. Dust			Combustible Dust
Eye Irrit. 2A			Serious eye damage/eye irritation Category 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
H402			Harmful to aquatic life
H412			Harmful to aquatic life with long lasting effects
NFPA Fire Hazard	0	Materials that will not burn.	
NFPA Reactivity	0	Normally stable, even under fire exposure conditions, and are not reactive with water.	
NFPA Health Hazard	2	Intense or continue	ed exposure could cause temporary incapacitation or possible residual injury
		unless prompt med	dical attention is given.





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# **SAFETY DATA SHEET**

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The Sanctuary, Inc

PO Box 656

Winter Park, CO 80482