



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Identifier	MicroCoat Ultra
Recommended Use	Plant nutrient/supplement for agricultural use
SupplierDetails	AgXplore International, LLC 7035 State Hwy D P.O. Box 638 Parma, MO 63870 USA
Telephone Contacts	For Product Information, call (573) 357-4506 FOR ANY SPILL, LEAK, FIRE, OR EXPOSURE, CALL CHEMTREC 1 (800) 424-9300 (24 HRS)

SECTION 2: HAZARDS IDENTIFICATION

Classification According to 29 CFR 1910.1200

Label Elements

Serious Eye Damage/Eye Irritation Category 1
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systematic Toxicity (STOT) Repeated Exposure Category 2

Signal Word

DANGER



KEEP OUT OF REACH OF CHILDREN

Other Hazards

Causes skin irritation.
Causes Serious eye damage.
May cause damage to organs through prolonged or repeated exposure.

SECTION 3: COMPOSITION

Ingredient Name	CAS Number	Percent
Citric Acid	77-92-9	<1.0%
Magnesium Sulfate, Heptahydrate	10034-99-8	<25.0%
Manganese Sulfate Monohydrate	10034-96-5	<5.0%
Zinc Sulfate Monohydrate	7446-19-7	<12.0%
Sodium Molybdate	7631-95-0	<1.0%

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

If symptoms occur, call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If swallowed: Call a poison control center or doctor immediately for advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

Most Important Symptoms and Effects Acute and Delayed

Eyes: Causes mild to severe irritation. May cause: irritation, pain, swelling, tearing, light sensitivity, corneal burns. Effects depend on concentration and duration of exposure.

Skin: May cause mild to moderate irritation. Contact may cause: i

Immediate Medical Attention and Special Treatment

Treat symptomatically. Have container with you when seeking medical advice.

Note to physician: No specific antidote. Treat symptomatically and according to the condition of the patient.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Use water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers, or foam. Do not use direct water stream, as this may spread the fire.

Special Hazards Arising from the Substance or Mixture

Fire and Explosion Hazard: None known. May be explosive when mixed with hypochlorites due to the formation of nitrogen trichloride which explode spontaneously in air. Reacts violently with chlorine bleach. Resultant product may explode. May burn but does not ignite readily.

Hazardous Combustion Products: Sulfur oxides. Ammonia. Carbon dioxide. Cyanuric acid. Biuret. Nitrogen oxides. Toxic and/or hazardous gases. Manganese oxides. Zinc oxides.

Special Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting gear. If protective equipment is not available or is not used, fight fire from a protected location or safe distance. Consider the use of unmanned hold holders or monitor nozzles. Keep people away. Isolate the fire and deny unnecessary entry. Move container from fire area if this is possible without hazard. Immediately withdraw all personnel from the area in case of rising sound from venting safety devices or discoloration of the container. Use water spray to cool fire exposed containers and fire affected zone until fire is out and the danger of reignition has passed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions Protective Equipment and Emergency Procedures

Avoid inhalation of vapors, dusts, and spray mist. Avoid contact with skin and eyes. Spilled material may cause a slipping hazard. Use appropriate personal protective equipment (see section 8).

Environmental Precautions

Prevent further spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways, and/or groundwater.

Methods and Materials for Containment and Cleanup

Contain spilled material if possible. Absorb with inert material and dispose of in accordance with applicable regulations. See additional information in Section 13 Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Advice on Safe Handling

Wear protective equipment. Avoid contact with eyes, skin, and clothing. Do not eat, drink, or smoke while handling this product. Ensure adequate ventilation. Avoid inhalation of dusts, vapors, or spray mist. Avoid prolonged exposure. Wash hands thoroughly after handling.

Conditions for Safe Storage

Store in original container. Do not freeze. Store away from direct sunlight or ultraviolet light. Store in a dry place. Do not reuse empty container. Do not allow water to be introduced into container. Do not contaminate water, food, or feed by storage or disposal.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

OSHA Exposure Guidelines:

Manganese Sulfate Monohydrate Limits 5 mg/m³ Ceiling (as Mn)

ACGIH Exposure Guidelines:

Manganese Sulfate Monohydrate Limits 0.02 mg/m³ TWA (respirable particulate matter, as Mn);

Exposure Controls

Personal Protective Equipment: Wear splashproof goggles or shielded safety glasses, chemical-resistant gloves, long pants, long-sleeved shirt, shoes plus socks, and a chemical-resistant apron.

Respiratory Protection: Respiratory protection must be worn

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Evaporation Rate	Not determined
Appearance/Color	Mild odor	Specific Gravity (H ₂ O = 1.0)	1.29 at 25 °C
Odor	Dark Brown	Solubility in Water (by Weight)	Soluble
Odor Threshold	No test data available	Autoignition Temperature	Not determined
pH	2.0-3.0	Decomposition Temperature	Not determined
Freezing Point	17 °F	Viscosity	10.9 cPs
Flash Point	Not determined	Liquid Density	10.72 lbs/gal
Vapor Pressure	Not determined		

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Stable. No dangerous reaction potential known under normal conditions of use.

Chemical Stability

Stable under normal temperature and storage conditions.

Possibility of Hazardous Reactions

Stable under normal conditions. Urea will form urea nitrate when mixed with nitric acid at low pH. Urea nitrate may become unstable and/or explosive under certain conditions. Reacts with alkalines to form salts.

Conditions to Avoid

Avoid exposure to strong oxidizers, strong bases, and strong acids. Avoid extreme heat, open flame, sparks, and other sources of ignition.

Incompatible Materials

Strong acids, strong bases, and strong oxidizers.

Hazardous Decomposition Products

Decomposition products depend upon temperature, air supply, and the presence of other materials.

Decomposition products may include, but are not limited to: aldehydes, alcohols, esters, and organic acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

ROUTES OF EXPOSURE: Eyes, Ingestion, Inhalation, Skin, Absorption

Eye Contact: Causes mild to severe irritation. May cause: irritation, pain, swelling, tearing, light sensitivity, corneal burns. Effects depend on concentration and duration of exposure.

Skin Contact: May cause mild to moderate irritation. Contact may cause: irritation, redness, pain, sensitization.

Skin Absorption: May be absorbed through skin. Poorly absorbed through intact skin. May be absorbed through damaged skin. Effects may include those described for swallowing.

Inhalation: May cause moderate to severe irritation. May irritate: nose, throat, upper respiratory tract.

Irritation may be severe. May cause: difficulty breathing, low blood pressure, dizziness, bluish skin color, lung congestion. Chronic exposure may cause: digestive disorders, reflex bronchoconstriction.

Ingestion: May cause mild to severe irritation. May cause: gastrointestinal irritation, gastrointestinal disturbances, abdominal pain, nausea, vomiting, diarrhea. Manganese poisoning, as described in inhalation, has been reported in persons drinking manganese-contaminated well water. May cause damage to: kidneys, liver. Symptoms of severe poisoning may occur within 30 minutes or be delayed for several hours. The average lethal dose of iron is about 200 to 250 mg per kg of body weight. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

ACUTE TOXICITY

Oral: No Data Available for finished product*

Dermal: N/A

Eye damage/eye irritation: May cause slight temporary eye irritation. Mist may cause eye irritation.

Skin corrosion/irritation: N/A

Carcinogenicity: N/A

*Manganese Sulfate, a component in this product, has oral LD50 of 2150 mg/kg in rats.

Zinc Sulfate Monohydrate, a component in this product, as oral LD50 of 1260 mg/kg in mice.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

This product is not classified as environmentally hazardous.

Aquatic Acute Toxicity:

EC50 Algae: N/A

LC50 Crustacea: N/A

LC50 Fish: N/A

Persistence and Degradability

Material is readily biodegradable.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other known adverse effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Do not reuse empty container. Triple rinse, then offer for recycling or disposal in a sanitary landfill, or by other means in accordance with local, state, and federal regulations.

Dispose of waste materials at an approved waste disposal facility. Do not dump material in sewer or any body of water, or on the ground.

SECTION 14: TRANSPORT INFORMATION

Transportation

DOT Non-Bulk: Not Regulated

DOT Bulk: Not Regulated

Freight Classification: Fertilizing Compounds (Manufactured Fertilizers), NOI, Liquid (NMFC 68140, Sub 6; Class 70)

SECTION 15: REGULATORY INFORMATION

Safety, Health, and Environmental Regulations

NFPA Hazard Rating: (0 = Least, 1= Slight, 2=Moderate, 3=High, 4= Severe)

1 Health

0 Fire

0 Reactivity

SARA TITLE III Section 311/312 Category Hazards

Regulated Component/CAS Number: Manganese Sulfate Monohydrate/10034-96-5

CERCLA RQ: No

SARA EHS: No

SARA 313: Yes

US HAP: Yes

WI HAP: Yes

PROP 65: No

Regulated Component/CAS Number: Zinc Sulfate Heptahydrate/7446-19-7

CERCLA RQ: Yes

SARA EHS: No

SARA 313: Yes

US HAP: No

WI HAP: No

PROP 65: No

U.S. Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

SECTION 16: OTHER INFORMATION

Date Created 3/25/2021

Date Superseded 9/8/2020

VersionName MicroCoat Ultra2

Change Notes

Entered into new SDS system

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