

Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **MOSS-B-WARE**

Synonyms

- EPA Reg. No. 10699-1

Molecular Weight

- 179.46 g/mol

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

Recommended use

- To kill or prevent moss growth. Avoid applying to hard working surfaces.

Details of the supplier of the safety data sheet

Manufacturer

- Retta Manufacturing, Inc.
P.O. Box 1820
North Bend, WA 98045
United States

Supplier

- Central Garden and Pet
1340 Treat Boulevard Suite 600
Walnut Creek, CA 94597
United States
www.central.com

Emergency telephone number

Manufacturer

- 1-800-265-0761

Manufacturer

- 1-800-858-7378 - National Pesticide Information Center (NPIC)

Supplier

- 1-800-424-9300 - CHEMTREC

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Acute Toxicity Oral 4 - H302
Serious Eye Damage 1 - H318

Label elements

OSHA HCS 2012

DANGER



Hazard statements • Causes serious eye damage - H318
Harmful if swallowed - H302

Precautionary statements

- Prevention** • Wash thoroughly after handling. - P264
Do not eat, drink or smoke when using this product. - P270
Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. - P301+P312
Rinse mouth. - P330
Immediately call a POISON CENTER or doctor/physician. - P310

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Zinc Sulfate Monohydrate	CAS:7446-19-7 EC Number:231-793-3	> 99%	NDA	OSHA HCS 2012: Acute tox. Cat. 4 (oral); Serious eye damage Cat. 1

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation**
- Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician if symptoms occur.
- Skin**
- Wash the contaminated area of body with soap and fresh water. Remove clothing and wash thoroughly before use. If irritation develops and persists, get medical attention.
- Eye**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately if symptoms occur.

- Ingestion**
- Call a physician or poison control center immediately. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- Probable mucosal damage may contraindicate the use of gastric lavage. If medical advice is needed, have product container or label at hand.
- Antidotes**
- There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- In case of fire use media as appropriate for surrounding fire.

- Unsuitable Extinguishing Media**
- None known.

- Firefighting Procedures**
- Keep unauthorized personnel away. Avoid breathing fumes..

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Hazardous Combustion Products**
- Hazardous decomposition may occur under fire conditions, generating fumes, producing sulphur oxides and zinc oxides.

Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Ventilate enclosed areas. Wear a self-contained breathing apparatus and appropriate Personal Protective Equipment (PPE)

- Emergency Procedures**
- Stay upwind. Evacuate area. Keep unauthorized personnel away. Stop leak if you can do it without risk.

Environmental precautions

- Avoid generating dust. Do NOT wash away into sewer. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Use appropriate Personal Protective Equipment (PPE) Carefully shovel or sweep up spilled material and place in suitable container. Do not use water to flush spill area. Prevent runoff from entering drains, sewers, and streams. This material and its container must be disposed of in a safe way.

Section 7 - Handling and Storage

Precautions for safe handling

- Handling**
- Avoid contact with skin and eyes. Use only in well ventilated areas. Do not breathe (dust, vapor or spray mist) Use good safety and industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

- Storage**
- Keep container/package tightly closed and in a well-ventilated place. Keep this product in its tightly closed original container, when not in use. Store in a cool, dry (preferably locked) area that is inaccessible to children and pets. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies.

Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

- Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



- Respiratory**
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
- Eye/Face**
- Wear eye/face protection - safety glasses, - face shield.
- Hands**
- Wear protective gloves - nitrile rubber.
- Skin/Body**
- Wear full body suit. Protective equipment must be selected according to the concentration and amount of product.
- Environmental Exposure Controls**
- Avoid release to the environment. Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	powder
Color	White	Odor	No data available
Taste	No data available	Particulate Type	Dust
Odor Threshold	No data available	Physical and Chemical Properties	White powder.
General Properties			
Boiling Point	500 C(932 F)	Melting Point	100 C(212 F)
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	3 to 5	Specific Gravity/Relative Density	No data available
Density	3 g/mL @ 25 C(77 F)	Bulk Density	No data available
Water Solubility	Soluble 1.01 g/mL @ 20 C(68 F)	Solvent Solubility	No data available
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

Section 10: Stability and Reactivity

Reactivity

- Substance does not burn.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Incompatible materials.

Incompatible materials

- Strong oxidizing agents.

Hazardous decomposition products

- Hazardous decomposition may occur under fire conditions, generating fumes, producing sulphur oxides and zinc oxides.

Section 11 - Toxicological Information

Information on toxicological effects

The Original CORRY'S MOSS-B-WARE								
Test Type	Dosage	Route	Species	Duration	Results	Test Class	Target Organs	Comments
Acute Toxicity	= 2949 mg/kg	Ingestion/Oral	Rat	NDA	LD50	NDA	NDA	NDA
Acute Toxicity	= 57 mg/kg	Ingestion/Oral	Mouse	NDA	LD50	NDA	NDA	NDA
GHS Properties			Classification					
Acute toxicity			OSHA HCS 2012•Acute Toxicity 4 (Ingestion/Oral)					
Aspiration Hazard			OSHA HCS 2012•Classification criteria not met					
Carcinogenicity			OSHA HCS 2012•Classification criteria not met					
Germ Cell Mutagenicity			OSHA HCS 2012•Classification criteria not met					
Skin corrosion/Irritation			OSHA HCS 2012•Classification criteria not met					
Skin sensitization			OSHA HCS 2012•Classification criteria not met					
STOT-RE			OSHA HCS 2012•Classification criteria not met					
STOT-SE			OSHA HCS 2012•Classification criteria not met					
Toxicity for Reproduction			OSHA HCS 2012•Classification criteria not met					
Respiratory sensitization			OSHA HCS 2012•Classification criteria not met					
Serious eye damage/Irritation			OSHA HCS 2012•Serious Eye Damage 1					

- Target Organs** • Kidney, Pancreas, Liver, Lungs
- Route(s) of entry/exposure** • Inhalation, ingestion, skin and eye contact.

Potential Health Effects

Inhalation

- Acute (Immediate)** • May be harmful. May cause respiratory irritation.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough. Exposure to high levels of dust can cause metallic taste, thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills.

Skin

- Acute (Immediate)** • May be harmful. Causes skin irritation.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials will cause dermatitis. (oxide pox)

Eye

- Acute (Immediate)** • Causes eye irritation.
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • May be harmful if swallowed.
- Chronic (Delayed)** • No data available

- Carcinogenic Effects** • The active ingredient(s) is not listed as a carcinogen by OSHA, IARC, or NTP.

Section 12 - Ecological Information

Toxicity

The Original CORRY'S MOSS-B-WARE					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
= 4.6 ppm	Fish: Salmon gardneri (rainbow trout)	0 to 95 Hour(s)	LC50	fresh water	NDA

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been carried out.

Other adverse effects

- This pesticide is toxic to fish.

Section 13 - Disposal Considerations

Waste treatment methods

- Product waste** • Do not empty into drains; dispose of this material and its container in a safe way.
- Packaging waste** • Nonrefillable container. Send to a licensed recycler, reclaimer or incinerator.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc sulphate monohydrate)	9	III	Marine Pollutant
IMO/IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc sulphate monohydrate)	9	III	Marine Pollutant
IATA/ICAO	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc sulphate monohydrate)	9	III	NDA

Special precautions for user • No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

DOT • Not regulated in containers under 1,000 lbs.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • SARA Title III Section 313

FIFRA – Pesticide Labeling

DANGER

Precautionary • Statements

Hazards to Humans and Domestic Animals • **HAZARD TO HUMANS AND DOMESTIC ANIMALS:** Corrosive. Causes irreversible eye damage. Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust or spray mist. Wear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Do not allow persons or pets in treated areas until dusts have settled or sprays have dried.

First Aid • **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. Call poison control center or doctor for treatment advice. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **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. Call a poison control center or doctor for further treatment advice. **HOTLINE NUMBER:** Have product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center (NPIC) at 1-800-858-7378. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Environmental Hazards • This product is toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Apply this product as specified on label. **PESTICIDE STORAGE:** Store in a dry, locked location, in original container and not accessible to children or pets. Avoid contamination or feed and food stuffs. **PESTICIDE DISPOSAL:** if partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. **CONTAINER DISPOSAL:** if empty: Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

State Right To Know				
Component	CAS	MA	NJ	PA
Zinc Sulfate Monohydrate	7446-19-7	No	No	No

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

United States - Pennsylvania

Labor

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

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

•Zinc Sulfate Monohydrate 7446-19-7 Not Listed

Section 16 - Other Information

Last Revision Date • 31/July/2013

Preparation Date • 05/July/2013

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