

PRODUCT SAFETY DOCUMENT



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SECTION 1: Identification

1.1 General Identification Commercial

Name: AgStone™ Double Shot Product

Description: Wetting Agent

1.2 Manufacturer Information AgStone™

LLC

PO Box 25474

Greenville, SC 29616

855-378-2211

sales@ag-stone.com

1.3 Emergency contact information

For chemical emergency only (spill, leak, fire, exposure or accident) call CHEMTREC at 1-800-424-9300 (703-527-3887 outside of the United States)

SECTION 2: Hazards Identification

2.1 Classification of the substance/mixture: Hazard category 3 -

Mild skin irritation

2.2 Pictograms: None

2.3 Signal Word: None

2.4 Hazard Statement: None

2.5 Precautionary Statements: None

HMIS Ratings (scale 0-4).

HEALTH	1	Health = 1
FIRE	1	Fire = 1
PHYSICAL HAZARD	0	Physical Hazard = 0
PPE	B	



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SECTION 3: Composition/information on components

Chemical Characterization: Mixture

Principal Components	CAS No.	Percentage
Oleic Acid Esters of Block Copolymers	Proprietary	60
Kelp Extract	n/a	40

SECTION 4: First Aid Measures

4.1 Eye Contact

In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, taking care to rinse under eyelids. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, get medical advice/attention.

4.2 Skin Contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing and launder before reuse.

4.3 Ingestion

If swallowed, give milk or water to dilute. DO NOT INDUCE VOMITING. Call a Poison Center or doctor/physician if you feel unwell.

4.4 Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a Poison Center or doctor/physician if you feel unwell.

4.5 NOTE TO PHYSICIANS

Based on component information, this product is slightly toxic by ingestion. If a large amount is ingested, consideration should be given to careful endoscopy as stomach or esophageal irritation may occur, with possible central nervous system effects following absorption into the blood stream. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.



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SECTION 5: Fire-fighting Measures

5.1 Flammable Properties

Flash Point - >200°F/>93°C

Test Method - Cleveland Open Cup

Fire Point - 440°F/227°C

Test Method - Cleveland Open Cup - ASTM D92

5.2 Extinguishing Media

Use alcohol foam, carbon dioxide or water fog when fighting fires involving this material. Use a water fog or spray to cool the containers exposed to the heat of a fire. **Unsuitable extinguishing media: Direct water jet.**

5.3 Hazardous Products of Combustion

Oxides of carbon, smoke, and fumes. When heated to dryness and decomposition, it emits toxic ammonia gas, chloride compounds, carbon dioxide, carbon monoxide, and nitrogen oxides with trace or ultra-trace toxic oxide amounts of iron, sulfur, manganese, magnesium, potassium, calcium, phosphorus, zinc, cobalt, boron, and sodium.

5.4 Fire Fighting Instructions

Fire fighters should wear full protective gear including self-contained breathing apparatus (SCBA) with full face shield operated in positive pressure mode, and full protective clothing. Closed containers may swell and rupture when exposed to extreme heat. Water spray may be used to cool containers. Avoid spraying of water directly into containers or burning material as frothing may result. Water runoff may cause environmental damage. Dike and collect water used to fight fires.

5.5 General Hazard

This product is an aqueous, slightly alkaline solution of organic and inorganic compounds with small amounts of mineral salts. The Uniform Fire Code health hazard classification for this product is: **Irritant**. It may produce hazardous decomposition products.



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SECTION 6: Accidental Release Measures

6.1 Personal precautions

Individual involved in clean-up activities must use appropriate protective equipment as listed in Section 8 of the SDS. This material forms slippery surfaces on floors and poses an accident risk. Isolate and delimit the affected area. Eliminate all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

6.2a Release to Land - Prevent the product reaches the sewer. Prevent soil contamination. Wearing protective equipment and clothing, dike the spill and pick up the bulk of the liquid using pumps or vacuum truck for disposal in accordance with Federal, State, and local regulations. Absorb the remaining liquid using sand, or commercially absorbent material; dispose as Federal, State, and local requirements dictate. Flush the spill area with water; collect the rinsates for disposal as the regulations require. Do not mix with other waste materials.

6.2b Release to Water - Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

See also Section 8.

Use personal protective equipment (PPE). Ensure adequate ventilation. Do not eat, drink, or smoke when using this product. Do not handle product near a source of ignition or open flame. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Remove clothing immediately if the product is inside. Wash thoroughly with soap and water after handling, and before eating, drinking, smoking or using the toilet. Launder clothing before redress.

7.2 Conditions for safe storage

Keep from freezing. Do not store near flame, heat sources, or near strong oxidizing agents. Keep receptacle tightly sealed and clearly labeled in a dry, cool and well-ventilated area sheltered from the sun. Store the product in the original container. Empty containers may retain product residue. Do not store near or with any of the incompatible materials in Section 10. Do not store with food, beverages, feed and water supplies.

Dispose of container in accordance with local/regional/international regulations. Keep out of reach of unauthorized persons, children and animals.



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SECTION 8: Exposure Controls/Personal Protection

8.1 Engineering Controls

Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions in the work area below the ACGIH-TLV, AIHA WEEL or levels that may cause irritation.

8.2 Personal Protective Equipment

Eye/Face - Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full-face respirator is worn.

Respiratory - A NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge or canister may be used when respiratory protection is required.

Skin/Body - For brief contact, body covering clothing should be worn. Use neoprene or butyl rubber gloves. Wear a butyl rubber or neoprene apron.

Other Precautions - Safety shower and eye wash station should be located in exposure area. Reduce exposure by proper use of personal protective equipment. Wash hands and face before eating, drinking, or smoking.

8.3 Environmental exposure controls

Do not flush into surface waters or sanitary drain systems.

SECTION 9: Physical and Chemical Properties

Physical state: Liquid

Color: brown, green

Odor: Mild fatty, marine

Odor Threshold: No data available

Molecular Formula: Mixture

pH: 6.75-7.5

Melting Point/Freezing Point: No data available

Initial Boiling Point and Boiling Range: No data available

Flash Point: >200°F/>93°C

Fire Point: 440°F/227°C

Evaporation Rate: No data available



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Flammability (solid, gas): Not applicable
Upper/Lower Flammability: Not determined
Vapor Pressure: Not determined
Specific Gravity: 1.03 (8.86lb/gal)
Solubility: Soluble in water
Partition Coefficient: No data available
Auto-Ignition Temperature: Product is not self-igniting
Decomposition Temperature: Not determined
Viscosity: Not determined

SECTION 10: Stability and Reactivity

Chemical Stability: Stable and hazardous polymerization will not occur under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of Hazardous Reactions: No hazardous reactions are expected under normal processing.

Conditions to Avoid: Do not store this product below 50°F (10°C) or above 90°F (30°C). Avoid direct sunlight. Avoid exposure to light. Avoid heat sources.

Incompatible Materials: Oxidizing Materials, alkaline solutions, reducing agents, non-ferrous metals, strong oxidizers, combustible materials.

Hazardous Decomposition Products: When heated to dryness and decomposition, it emits toxic ammonia gas and chloride compounds, plus toxic oxides of carbon, nitrogen, and cobalt with trace or ultra-trace toxic oxide amounts of iron, sulfur, manganese, magnesium, potassium, calcium, phosphorous, boron, zinc, and sodium.

Sensitivity to Mechanical Impact or Static Discharge: Not sensitive.

SECTION 11: Toxicological Information

11.1 Routes of Exposure

Skin contact, inhalation, ingestion

11.2 Toxicity

LD50 - Route: Oral (Rat) - greater than 2000mg/kg

LC50 - Route: Inhalation (Rat) - greater than 2.11mg/L

LC50 - Route: Aquatic (Oncorhynchus mykiss [Rainbow Trout]) - greater than 1000mg/L



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11.3 Potential Health Effects

None under normal conditions of use

11.4 Carcinogenic Categories

NTP (National Toxicology Program): No components listed

IARC (International Agency for Research on Cancer): No components listed

OSHA (Occupational Safety and Health Administration): No components listed

California Proposition 65 List of Chemicals: No components listed

SECTION 12: Ecological Information

12.1 Ecotoxicity

The product is completely soluble in water and is not expected to affect the pH of water. The product exhibits no evidence of toxicity on the CLL-1 cell line as tested as per the agar diffusion method.

12.2 Biodegradability

This product has a biodegradation of 98.32%.

SECTION 13: Disposal Considerations

Dispose of waste materials at a licensed site. Rinse the used containers with water three times and empty the water into the application tank. Do not burn containers, even after use. Disable the used packaging and dispose of content and/or empty containers in accordance with local, regional, national, and/or international regulations.

As originally offered, this product, if disposed of, is not considered hazardous waste under current Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261); nor is it listed as a hazardous waster under Subpart D due to toxicity. Consult state or local officials for proper disposal method.



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SECTION 14: Transport Information

Freight classification:

DOT: Not regulated

ICAO/IATA: Not classified as hazardous for transport with the transport regulations.

IMDG: Not classified as hazardous for transport with the transport regulations.

ADR/RID: Not classified as hazardous for transport with the transport regulations.

SECTION 15: Regulatory Information

15.1 US Regulations

Toxic Substances Control Act (TSCA) Information

- The components of this product are listed on the TSCA Chemical Substance inventory or are exempt

Superfund Amendments and Reauthorization Act (SARA Title III)

- Section 302/303 - no listed components
- Section 313 - no listed components

Environmental Protection Agency (EPA):

- 40 CFR 302 - No listed components

Coalition of Northeastern Governors (CONEG) Model Legislation

- This product is not manufactured with the intentional addition of lead, mercury, cadmium, or hexavalent chromium

Clean Air Amendment Act of 1990

- This product is not manufactured with, neither is it manufactured so that it comes into contact with, any Ozone Depleting Substances (ODS)

Carcinogenic Categories

- NTP (National Toxicology Program) - no components listed
- IARC (International Agency for Research on Cancer) - no components listed
- OSHA (Occupational Safety and Health Administration) - no components listed
- California Proposition 65 List of Chemicals - no components listed



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15.2 International Regulations

Canadian Environmental Protection Act (CEPA)

- Components listed in the Domestic Substance List

Canadian Regulations

- Controlled product. WHMIS Class/Division E; Corrosive Material

European Inventory of Existing Commercial Chemical Substances (EINECS)

- Components are listed or exempt as polymer

European Regulations (EC)

- No. 1272/2008 on classification, labelling, and packaging of substances and mixtures
- No. 1907/2006 concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH)
- No. 453/2010, amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH)

Australian Inventory of Chemical Substances (AICS)

- Components listed

Korean Existing Chemical List (ECL)

- Components listed

China Inventory of Existing Chemical Substances

- Components listed

SECTION 16: Other Information

Approved Product Uses: Used as part of a plant health program.

Special Notes: This product is not manufactured, or formulated to contain substances, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains mined minerals, this product may contain trace (parts per million) or ultra-trace (parts per billion) of elements known to the State of California to cause cancer, birth defects, or other reproductive harm.

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Legend to abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

PBT: Persistent, Bioaccumulative and Toxic

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT: Specific Target Organ Toxicity

vPvB: Very Persistent and Very Bioaccumulative

Key Literature References and Sources for Data:

ESIS: European Chemical Substances Information Systems

ECHA: European Chemicals Agency; <http://echa.europa.eu/>

Classification and Labelling Inventory Database:

<http://echa.europa.eu/web/guest/information-on-chemicals/clinventory-database>

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Preparer: N. Welch

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