1. IDENTIFICATION

Product Name: AgStone™ 15

Product Description: Wetting Agent

Manufacturer Information: AgStone™, LLC – P.O. Box 25474, Greenville, SC 29616

General Information: Phone Number: (855) 378-2211

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 United States)

2. HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture: Not hazardous according to GHS-compliant regulations in the USA as laid out by OSHA.

Pictograms: None

Signal Word: None

Hazard Statement: None

Precautionary Statements: None

HMIS Ratings (scale 0-4)

HEALTH	1
FIRE	1
PHYSICAL HAZARD	0

Health = 1
Fire = 1
Physical Hazard = 0

3. COMPOSITON / INFORMATION ON COMPONENTS

Chemical Characterization: Mixture

Principle Components	***CAS #***	***Percentage***
Oleic Acid Esters of Block Copolymers	Proprietary	10
Inert		90

4. FIRST AID MEASURES

Eye Contact – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists; get medical advice/attention.

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

Ingestion – If swallowed, give milk or water to dilute. Call a Poison Center or doctor/physician if you feel unwell.

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.

5. FIRE FIGHTING MEASURES

Flammable Properties:

- Flash Point (°F / °C).....: >200°F / >93°C
  - Test Method .....: Cleveland Open Cup
- Fire Point (°F / °C).....: 440°F / 227°C
  - Test Method .....: Cleveland Open Cup – ASTM D92

Extinguishing Media:
Use alcohol foam, carbon dioxide or water spray when fighting fires involving this material.

Hazardous Products of Combustion:
Oxides of carbon, smoke and fumes.

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 of burning material as frothing may result. Water runoff may cause environmental damage. Dike and collect water used to fight fires.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Individuals 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.

Environmental Precautions: If material is released into the environment (air, land, water – via sewage system), the user should determine whether spill must be reported to appropriate local, state and/or federal authorities.

Spill Response Procedures: Confine spill by diking with sand, earth or inert absorbent material. Absorb onto suitable material (sand, vermiculite, etc.), then shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

- Do not eat, drink or smoke when using this product.
- Avoid contact with eyes, skin and clothing.
- Wash thoroughly after handling

Conditions for Safe Storage:

- Keep from freezing.
- Store away from heat.
- Keep receptacle tightly sealed, and clearly labeled.
- Empty containers may retain product residue. Dispose of container in accordance with local/regional/international regulations

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment:

- Eye / Face – Wear safety glasses with side shields (or goggles) and a face shield.
- 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.
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Milky White to Light Tan
Odor	Mild Fatty
Odor Threshold	Not Determined
pH	5.5 – 8.0 Neat
Melting Point / Freezing Point	Not Determined
Initial Boiling Point and Boiling Range	212°F / 100°C
Flash Point	>200°F / >93°C
Fire Point	440°F / 226.7°C
Evaporation Rate	Not Determined
Flammability (solid, gas)	Not Applicable
Upper / Lower Flammability	Not Determined
Vapor Pressure	Not Determined
Specific Gravity	1.007 (8.387 lbs/gal)
Solubility	Soluble in water
Partition Coefficient	Not Determined
Auto-Ignition Temperature	Product is not self-igniting
Decomposition Temperature	Not Determined
Viscosity	0 – 1500 cps

10. STABILITY AND REACTIVITY

Chemical Stability ---------- Stable
Possibility of Hazardous Reactions ---------- No dangerous reactions known
Conditions to Avoid ---------- High Temperatures
Incompatible Materials ---------- Oxidizing Materials
Hazardous Decomposition Products ---------- No dangerous decomposition products known

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Skin Contact, Inhalation, Ingestion

Toxicity:

- LD50 – Route: Oral (Rat)
  - The acute oral LD_{50} of AgStone 15 is greater than 2000 mg/kg.
- LC50 – Route: Inhalation (Rat)
  - The acute inhalation LC_{50} of AgStone 15 is greater than 2.11 mg/L.
- LC50 – Route: Aquatic (Oncorhynchus mykiss [Rainbow Trout]):
  - The acute aquatic LC_{50} of AgStone 15 is greater than 1000mg/L.

Potential Health Effects: None under normal conditions of use

Carcinogenic Categories:

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

12. ECOLOGICAL INFORMATION

Ecotoxicity – The following test was conducted on AgStone™ 15, ASTM F895-11 (Standard Test Method for Agar Diffusion Cell Culture Screen for Cytotoxicity). Based on the observed results, the solution exhibited no evidence of toxicity on the CCL-1 cell line tested as per the agar diffusion method.

Biodegradability – AgStone™ 15 has been tested for biodegradability at test termination this product had a biodegradation of 98.32%.

13. DISPOSAL CONSIDERATIONS

As originally offered, this product if disposed of, is not considered a hazardous waste under current Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261). State and local regulations should also be consulted regarding proper disposal.

14. TRANSPORT INFORMATION

Freight Classification: Fatty Acid Esters, NOI, Item 144920, Class 65

Department of Transportation (DOT): Not Regulated

International Air Transport Association (IATA): Not Regulated

International Maritime Organization: Not Regulated

15. REGULATORY INFORMATION

U.S. Regulations

FDA Compliance

- 21 CFR 176.170 for use as *Components of paper and paperboard in contact with aqueous and fatty foods.*
- 21 CFR 176.180 for use as *Components of paper and paperboard in contact with dry food.*

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 311/312 – No listed components
- Section 313 – 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.

Clear 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 & Health Administration)..... No components listed
- California Proposition 65 List of Chemicals..... No components listed

International Regulations

Canadian Environmental Protection Act (CEPA)

- Components listed in the Domestic Substance List.

European Inventory of Existing Commercial Chemical Substances (EINECS)

- Components are listed or exempt as polymer.

Australian Inventory of Chemical Substances (AICS)

- Components listed

Korean Existing Chemical List (ECL)

- Components listed.

China Inventory of Existing Chemical Substances

- Components listed

European Communities (EC) Classification

- Not Regulated

Workplace Hazardous Material Information System (WHMIS) – Canada

- Not Regulated

Other Information

Impurities

- AgStone™ 15 is not manufactured with, neither does it contain formaldehyde alkylphenol ethoxylates (APE) – including nonyphenol ethoxylates; asbestos, bichlorinated phenols, carbon tetrachloride; benzene; halon; pentachlorophenol, polychlorinated biphenyls (PCB); or 1,1,1-trichloroethane (TCE)

Environmental

- AgStone™ 15 does not contain measurable quantities of volatile organic compounds when using the test protocol as set forth in the Environmental Protection Agency (EPA) Test Method 24.

Allergens

- AgStone™ 15 does not contain rubber latex.
- It also does not contain the 8 major food allergens or proteins derived from them, as listed in the Food Allergen Labeling and Consumer Protection Act (FALPAC) of 2004. The eight foods or food groups listed as major food allergens are as follows: milk, eggs, fish, crustacean shellfish, tree nuts, peanuts, wheat and soybeans.

16. OTHER INFORMATION

MSDS Date**.....**April 8, 2015
Last Revision Date**.....**May 25, 2016
Preparer **.....**L. Karam
Reason for Revision**.....**Date Revision