

1. IDENTIFICATION

Product Name: AXXE® Broad Spectrum Herbicide

Product Type: Liquid

Manufacturer:

BioSafe Systems LLC

22 Meadow Street

East Hartford, CT 06108

Office Telephone: (888) 273-3088

Emergency: CHEMTREC: 800-424-9300

(24 HOURS EVERY DAY)

Creation Date: 2/12

NOTE: Not valid two years after creation date.

EPA Registration No. 70299-23

EPA Establishment No. 064784-OK-001

2. HAZARDOUS COMPONENTS

Ammonium Nonanoate 63718-65-040.00%

Other Ingredients60.00%

3. HEALTH HAZARDS DATA

Emergency Overview: WARNING! CAUSES EYE IRRITATION.

Severely irritating to eyes. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Wash thoroughly after handling.

Skin: No known significant effects or critical hazards.

Eyes: Severely irritating to eyes. Risk of serious damage to eyes.

Ingestion: No known significant effects or critical hazards.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

4. FIRST AID

Eyes: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. FIRE AND EXPLOSION DATA

Special Fire Hazards: Non-flammable. In a fire or if heated, a pressure increase will occur and the container may burst. Use an extinguishing agent suitable for the surrounding fire. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Fire Fighting Methods:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. SPILL OR LEAK PROCEDURES

Cleanup: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Waste Disposal: Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Do not store below the following temperature: 0°C (32°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment by a qualified industrial hygienist indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment by a qualified industrial hygienist indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment by a qualified industrial hygienist indicates this is necessary.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear. Pale color. Liquid.

Flash point: Open cup: Not applicable.

[Product does not sustain combustion.]

Odor: Ammoniacal slight.

pH: 8 to 9 [Conc. (% w/w): 40%]

Boiling Point: 104.4°C (219.9°F)

Density: 1 g/cm³ [20°C (68°F)]

Viscosity: Kinematic: 0.61 cm²/s (61 cSt)

Solubility: Easily soluble in the following materials: cold water.

10. STABILITY AND REACTIVITY

Stability: Under normal conditions of storage and use the product is stable and hazardous reactions will not occur.

Conditions to Avoid: No specific data

Materials to Avoid: No specific data

11. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:

• LD50 Dermal - Rabbit - >2000 mg/kg

• LD50 Oral - Rat - >5000 mg/kg

Irritation/Corrosion:

• Eyes - Severe irritant - Rabbit

12. ECOLOGICAL INFORMATION

Environmental effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

DOT Classification: Not regulated.

IMDG Class: Not regulated.

IATA-DGR Class: Not regulated.

15. REGULATORY INFORMATION

United States inventory: All components are listed or exempted.

HCS Classification: Irritating material

U.S. Federal regulations:

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals:

No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313: No products were found.

California Prop. 65: No products were found.

CERCLA: Hazardous Substances: No products were found.

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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BioSafe Systems LLC

For additional information, call 1.888.273.3088 (toll-free).

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