

AXXE® Broad Spectrum Herbicide

Form #:	SDS-035
Revision Date:	01/31/2019
Revision #:	03
Supersedes Date:	08/22/2018

Section 1: Identification						
Product Name:	AXXE® Broad Spectrum Herbicide	Product Type / Description: Herbicide				
Recommended Use:	Non-selective herbicide for commercial use.	Other Means of		Ammonium Nonanoate Solution		n
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	Identification:		Ammonium Nonanoate Solution		11
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	EPA Registration #:	702	99-23	Canada PMRA Registration #:	32719
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)				

Section 2: H	azard Identification	
GHS Classification	Hazard Statements	
Serious Eye Damage / Irritation: Category 2A	H319: Causes serious eye irritation.	
Pictograms	Signal Word	
	WARNING	
Precautio	onary Statements	
General	Response	
P101: If medical advice is needed, have product container or label at	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.	
hand.	P303+P361+P353: IF ON SKIN: Take off immediately all contaminated	
P102: Keep out of reach of children.	clothing. Rinse skin with water/shower.	
P103: Read label before use.	P304+P340: IF INHALED: Move person to fresh air and keep comfortable for breathing.	
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several	
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Prevention	Storage / Disposal	
P264: Wash thoroughly after handling.	P405: Store locked up.	
P280: Wear protective gloves, clothing, eye protection, face protection.		
	P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations.	

Section 3: Composition / Information on Ingredients			
Components	% Composition (w/w)		
Ammonium Nonanoate	63718-65-0	36.0 – 41.0%	
Other proprietary ingredients	-	59.0 – 64.0%	

	Section 4: First-Aid Measures
Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact
	lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Skin Contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the
	exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If
	vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health
	effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and
	get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if
	respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing
	aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place
	in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,
	tie, belt or waistband. 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.



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Section 5: Fire-Fighting Measures		
Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water or dry chemical spray.	
Unsuitable Extinguishing Media: None known.		
Combustion Products: None known, not combustible.		
Unusual Fire and Explosion Hazards:	In a fire or if heated, a pressure increase will occur and the container may burst.	
Protective Equipment for Firefighters:	Do not enter fire area without proper protective equipment, including respiratory protection.	

	Section 6: Accidental Release Measures
Personal Precautions:	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through
	spilled material. Avoid breathing vapor or mist. Provide adequate ventilation.
Emergency Procedures:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep
	unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing
	vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is
	inadequate. Put on appropriate personal protective equipment.
Environmental	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant
Precautions:	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and Material	Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up
for Containment and	if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste
Clean-Up:	disposal container. Dispose of via a licensed waste disposal contractor.
	Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into
	sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.
	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth
	and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
	Contaminated absorbent material may pose the same hazard as the spilled product.

	Section 7: Handling and Storage
Handling:	Put on appropriate personal protective equipment (see Section 8). 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:	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. See also Section 8 for additional information on hygiene measures.
Incompatible	Do not store below the following temperature: 0°C (32°F). Store in accordance with local regulations. Store in original container
Materials:	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.

Section 8: Exposure Controls / Personal Protection				
Components with Workplace Control Parameters				
Component ACGIH NIOSH OSHA				
Ammonium Nonanoate	Not applicable.	Not applicable.	Not applicable.	
Engineering Controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
General Hygienic Practices:	Do not eat, drink or smoke during use.			
Personal Protective Equipment:	Protective clothing, protective goggles, gloves, face shield.			
Respiratory Protection:	Use NIOSH-approved respirator where airborne concentrations of vapor are expected to exceed exposure limits.			
Eye / Face Protection:	Chemical goggles or face shield.			
Hands:	Chemical resistant gloves.			
Skin / Body:	Wear suitable protective clothing.			

Section 9: Physical and Chemical Properties					
Appearance:	Clear, pale liquid.	Odor:	Slight ammonia.	Odor Threshold:	Not available.
pH:	8.0 – 9.0	Specific Gravity:	1.00 g/cm ³	Viscosity:	0.61 cm ² /s (61 cSt)
Melting Point:	Not available.	Freezing Point:	Not available.	Boiling Point:	104.4°C (219.9°F)
Flash Point:	Not available.	Flammability:	Not available.	Flammability Limits:	Not available.
Vapor Pressure:	Not available.	Vapor Density:	Not available.	Solubility:	Complete.
Evaporation Rate:	Not available.	Auto-Ignition Temperature:	Not available.	Decomposition Temperature:	Not available.
Relative Density:	Relative Density: Not available. Partition Coefficient n-octanol / water: Not available.				



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Section 10: Stability and Reactivity				
Stability:	Stable under normal conditions.			
Conditions to Avoid:	No specific data.			
Incompatible Materials:	No specific data.			
Hazardous Decomposition Products:	Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides.			

Section 11: Toxicological Information							
Acute Toxicological Data							
Oral LD50 : >5000 mg/kg (rat) Dermal LD50 : >2000 mg/kg (rabb				bit)	Inhalation LC50:	Not available.	
Likely Routes o	Likely Routes of Exposure: Eye contact, skin contact.						
Symptoms and Effects							
Condition		Acute Effects		Chronic (Delayed) Effects			
Eye Contac	ct: Causes s	Causes serious eye irritation.			Persistent irritation.		
Skin Contac	Skin Contact: No specific data.			No specific data.			
Inhalatio	Inhalation: No specific data.			No specific data.			
Ingestio	Ingestion: No specific data.			No specific data			

Section 12: Ecological Information				
Ecotoxicity:	Not available.			
Persistence and Degradability:	Not available.			
Bioaccumulation Potential:	Not available.			
Mobility in Soil:	Not available.			
Other Adverse Effects:	Avoid release to the environment.			

Section 13: Disposal Considerations				
Waste from Residues and Unused Product:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and			
	international regulations.			
Contaminated Container Disposal:	Do not reuse or refill this container. Triple rinse empty containers with clean water. Clean and empty			
	containers are to be recycled or placed in the trash.			

Section 14: Transport Information							
	UN	UN Proper Shipping Name	Hazard Class	Label (Subsidiary)	Packing	Marine	
	Number (Subsidiary) Group Pollutant						
Not regulated							

Section 15: Regulatory Information											
TSCA Inventory List:	Yes US EPA CERCLA Hazardous Substances:				Not applicable.						
SARA Title III Sec. 302/303	Not applicable.					Sec. 302 TPQ: Not applicable.			applicable.		
SARA Title III Sec. 311/312	Not applic	Not applicable. Hazard Category: Not applicable. Sec. 304 EHS RQ: Not applicable.					Not applicable.				
US EPA EPCRA Sec. 313	Not applicable.			(CAA Threshold Qty: Not appl			applicabl	icable.		
NFPA Rating	Health:	2	Flammability:	0	Reactivi	ty: 0 Special: None					
HMIS Rating	Health:	2	Flammability:	0	Physic	cal: 0 PPE: Recommended.		d.			
CAN WHMIS Classification Class D-2B: Material causing other toxic effects											
California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or										
	reproductive harm.										



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Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 ${\it AXXE}^{\circledast} \ {\it Broad Spectrum Herbicide} \ is \ a \ registered \ trademark \ of \ BioSafe \ Systems, \ LLC.$

For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com

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Key to Abbreviations

ACGIH - American Conference of Governmental Industrial Hygiene	TWA - Time-Weighted Averages are based on 8h/day, 40h/week exposures				
NIOSH - National Institute of Occupational Safety and Health	STEL - Short Term Exposure Limits are based on 15-minute exposures				
OSHA - Occupational Safety and Health Administration	STEV - Short Term Exposure Value				
EHS – Environmental Health and Safety	PEL - Permissible Exposure Limit				
DOT – Department of Transportation	CAN TDG – Canadian Transportation of Dangerous Goods				
EPA – Environmental Protection Agency	TSCA – Toxic Substances Control Act				
TPQ – Threshold Planning Quantity	RQ – Reportable Quantity				
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act	SARA – Superfund Amendments and Reauthorization Act				
NFPA – National Fire Protection Association	HMIS – Hazardous Materials Identification System				
WHMIS – Workplace Hazardous Materials Information System (Canada)	EPCRA - Emergency Planning and Community Right-to-Know Act				