



MATERIAL SAFETY DATA SHEET

US – Domestic Only

Section 1. Company Identification and Product Information			
Product Name or Identity:	Agri-Screen® Ticket Pesticide Detectors AT-10 Kit, 10 Samples (8920), AT-25 Kit, 25 Samples (8921) Bulk Tickets and Ampoules (8924), Activator Ampoules (8951, 8956, 8910)		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.:	517/372-9200
	620 Leshler Place	Fax No.:	517/372-0108
	Lansing, MI 48912	e-mail:	foodsafety@neogen.com
Date Prepared or Revised:	July 2015	Chemtrec:	(800) 424-9300 Outside US and Canada: (703) 527-3887

Section 2. Composition / Information on Hazardous Ingredients			
This product is a mixture of the substances listed below with the addition of nonhazardous materials.			
Hazardous Components Specific Chemical Identity:	CAS-No.	% Concentration*	Hazard Symbol
Bromine	7726-95-6	2%	T (Toxic), C (Corrosive)
Water	7732-18-5	98%	N/A

*All concentrations are percent by weight.

Section 3. Health Hazard Identification	
Health Hazards: (Acute and Chronic)	Information pertaining to particular dangers for man and environment. Skin and eye irritant. May cause burns. Hazardous if ingested or inhaled.

Section 4. First Aid Measures	
Emergency / First Aid Procedures:	Ingestion: DO NOT induce vomiting. If swallowed, seek medical attention immediately. Wash out mouth with water. Show physician product label or MSDS. Never give anything by mouth to an unconscious person. Inhalation: If inhaled, supply fresh air or oxygen at rest. Seek medical attention immediately. If not breathing, apply artificial respiration. If breathing is difficult, oxygen may be necessary. Eye Contact: Immediately rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention immediately. Remove contact lenses if able. Skin Contact: Immediately wash with plenty of soap and water for at least 15 minutes while removing contaminated clothing. Seek medical attention. Wash clothing before reuse.

Section 5. Fire and Explosion Hazard Data	
Flash Point (Method Used): Not Applicable	Flammable Limits: LEL – N/A, UEL – N/A
Extinguishing Media: Use water spray, dry powder, or carbon dioxide.	
Protective Equipment: Firefighters should wear full protective equipment and self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards: Not Applicable	
Hazardous Combustion Products: Not Available	

Section 6. Accidental Release Measures	
Personal Precautions: Avoid inhalation of vapors and contact with skin and eyes. Wear suitable protective clothing, gloves, and eye protection. Place contaminated material in a chemical waste container. Avoid prolonged or repeated material.	
Environmental Precautions: Avoid run-off into sewers or waterways.	
Clean-up Methods: Small Spill: Dilute with water and mop up, or absorb with inert dry material. Place in appropriate waste disposal container.	

Section 7. Handling and Storage

Handling: Avoid inhalation of vapors and contact with skin and eyes. Protect against physical damage. Ensure good ventilation / exhaustion. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched.

Storage: Keep container tightly closed in a well-ventilated place. Store in closed original container in a dry place.

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring: Bromine (7726-95-6)

Chemical Name	Source	Type	Exposure Limits
Bromine	US ACGIH TLV	TWA	0.1 ppm
Bromine	US ACGIH TLV	STEL	0.2 ppm

Engineering Controls: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist.

Respiratory Protection: Respiratory protection must be used if air contamination exceeds acceptable level. In the US, assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Use a NIOSH-approved respirator (See 29 CFR 1910.134, respiratory protection standard).

Personal Protective Equipment: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing. Proper ventilation required. Safety shower and eye bath required.

Keep away from food, beverages, and feed.

Wash hands before and after entering laboratory.

Hand Protection: Use chemical resistant gloves. Be aware that the liquid may penetrate gloves.

Eye Protection: Wear approved safety goggles.

Body Protection: Wear lab coat or other protective work clothing that is chemical resistant.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

Section 9. Physical and Chemical Properties

Appearance and Odor: Amber liquid, characteristic Bromine odor.	Evaporation Rate: Data not available.
Boiling Point: Data not available.	Vapor Pressure: Data not available.
Melting Point: Data not available.	Vapor Density (Air=1): Data not available.
Solubility in Water: Completely soluble	Viscosity: Data not available.

Section 10. Stability and Reactivity

Stability:	Unstable		
	Stable	X	Stable under normal temperature conditions.
Incompatibility (Materials to Avoid): Incompatible with reducing agents, oxidizing agents, and organic materials.			
Hazardous Decomposition or Byproducts: Bromine, at elevated temperatures.			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Incompatible materials.
	Will Not Occur	X	

Section 11. Toxicological Information

LD/LC₅₀ values that are relevant: Bromine (7726-95-6)

LD₅₀: Oral-Rat, 1700 mg/kg

LC₅₀: Inhalation-Rat, 2700 mg/m³

Carcinogenicity Classification: Not listed as a carcinogen

IARC (International Agency for Research on Cancer) – Not Listed

NTP (National Toxicology Program) - Not Listed



Eye: Produces eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.
Inhalation: Harmful if inhaled in high concentrations; may cause respiratory distress.
Skin: Causes skin irritation, chronic exposure may produce burns.
Chronic: Repeated or prolonged exposure may cause burns.

Section 12. Ecological Information

Ecotoxicity Tests: This product contains a substance which is toxic to aquatic organisms.
Bromine: LC₅₀ - Fish, 0.31 mg/L, 24 hours.

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations.
RCRA P-Series: None listed.
RCRA U-Series: None listed.
Container Information: Do not remove labels from containers until they have been cleaned.

Section 14. Transport Information

DOT Regulations:
UN No. UN 1744
Proper Shipping name: Bromine Solution, 2%
Class: 8
Packing Group: I
Remarks: Excepted / Small quantity (30 mL) citation 49 CFR 173.4

Section 15. Regulatory Information

US Regulations: CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated.

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):

Chemical Name: Bromine. **Regulated Quantity:** 500lbs.

Section 311/312 (40 CFR 370):

Acute (Immediate), Chronic (Delayed)

Section 313 Toxic Release Inventory (40 CFR 372):

Bromine 7726-95-6 - Reporting threshold others: 10,000 lbs. Reporting threshold manufacturing/processing: 25,000 lbs.

Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130): Bromine

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

OSHA: Hazardous by definition of Hazardous Communication Standard (29 CFR 1910.1200)

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN- Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Not regulated.

Connecticut Hazardous Material Survey: Bromine

Illinois Chemical Safety Act: Bromine

Massachusetts Right-To-Know List: Bromine

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act 451 of 1994):
Not regulated.

Minnesota Hazardous Substances List: Bromine

New Jersey Right-To-Know: Bromine

New York Release Reporting List: Bromine

Pennsylvania Right-To-Know: Bromine

Rhode Island Right-To-Know: Bromine

Section 16. Other Information**NFPA**

Health Hazard: 2

Fire Hazard: 0

Instability Hazard: 0

Special Hazard: 0

HMS

Health Hazard: 1

Flammability: 0

Physical Hazard: 0

Personal Protection: B (Safety Glasses, Gloves)

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.