GARLIC RESEARCH LABS, INC.

SAFETY DATA SHEET

Garlic Barrier AG+

Revision date: November 17, 2026

SECTION 1 – IDENTIFICATION

Product identifier: Garlic Barrier AG+

Recommended use: Garlic-based agricultural and plant application product. Use only as directed on the current product label.

Restrictions on use: Use only as directed on the current product label. Do not use for purposes other than the labeled use.

Manufacturer: Garlic Research Labs, Incorporated; 624 Ruberta Avenue, Glendale, California 91201-2335, USA

Emergency telephone: 1-800-424-7990

SECTION 2 – HAZARD(S) IDENTIFICATION

Hazard classification: This mixture is recognized by the FDA as GRAS (Generally Recognized As Safe). Within the meaning of the OSHA Hazard Communication Standard (29 CFR 1910.1200): This product is not considered a hazard when used in a manner consistent with labeled directions.

Potential effects – Eyes: May produce transient superficial irritation.

Potential effects – Skin: None to slight irritation.

Potential effects – Inhalation: No significant inhalation hazard reported under normal use.

Potential effects – Ingestion: Ingestion of several ounces may produce signs of stomach irritation.

Historical hazard ratings: Health 1 (slight), Flammability 0, Reactivity 0.

Label elements: Keep out of reach of children. Avoid unnecessary contact with eyes and skin.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

This product is a garlic-based liquid mixture.

Ingredient	CAS No.	Concentration
Garlic juice	Not specified	Proprietary
Garlic oil	8000-78-0	Proprietary
Water	7732-18-5	Proprietary
Citric acid (dry)	77-92-9	<1%
Potassium sorbate (dry)	24634-61-5	<1%

SECTION 4 – FIRST-AID MEASURES

Eye contact: Flush cautiously with clean water. Seek medical attention if irritation persists.

Skin contact: Rinse skin with water. Remove contaminated clothing if needed. Seek medical attention if irritation persists.

Inhalation: Move to fresh air if discomfort occurs, particularly following exposure to spray mist.

Ingestion: May cause nausea, vomiting, and mild gastrointestinal irritation. Rinse mouth. Do not induce vomiting. Contact a poison center or medical professional for advice, especially after significant ingestion.

Most important symptoms: Possible transient superficial eye irritation, slight skin irritation, nausea, vomiting, or mild gastrointestinal irritation.

SECTION 5 – FIRE-FIGHTING MEASURES

Flash point: Not applicable.

Auto-ignition temperature / flammable limits: Not applicable.

Suitable extinguishing media: Product will not burn.

Specific hazards: No fire or explosion hazards.

Protective equipment: Not applicable.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid excessive contact with eyes and skin.

Environmental precautions: Prevent uncontrolled release to the environment. Do not dispose of bulk quantities directly into the environment.

Containment and cleanup: Absorb spills with inert material and place collected liquid and absorbent in a suitable disposal container. Follow applicable local wastewater and disposal requirements.

SECTION 7 – HANDLING AND STORAGE

Safe handling: Avoid excessive contact with eyes and skin. Wash thoroughly after handling and applying. Keep out of reach of children.

Storage conditions: Store in a cool, dry area. Keep containers closed when not in use and protect them from damage.

Recommended storage temperature: Store in a cool dry area.

Incompatible materials: No specific incompatible materials identified.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Good general ventilation is recommended for industrial use.

Eye protection: Safety glasses with side shields for industrial handling.

Skin protection: For brief contact, normal work attire may be sufficient. Long sleeves, long pants, and appropriate protective footwear are recommended. Select protective clothing based on task and exposure.

Respiratory protection: Not generally required under normal use. Reassess where spray mist or aerosols are generated or ventilation is inadequate.

Hygiene: Wash thoroughly after handling and applying.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance / color: Light to dark amber colored liquid.

Odor: Strong garlic.

Physical state: Liquid.

pH: 6.2–7.3 (current batch confirmation recommended).

Specific gravity (water = 1): 1.1 (current batch confirmation recommended).

Solubility in water: Soluble.

Melting point: Not applicable.

Boiling point: Not available.

Odor threshold: Reported as low; no quantitative value supplied.

Vapor density: Not available.

Flash point: Not established.

Other properties: Not available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No specific reactivity data available.

Chemical stability: Reported stable under normal conditions.

Possibility of hazardous reactions: None known.

Conditions to avoid: No specific conditions identified.

Incompatible materials: None specifically identified.

Hazardous decomposition products: None specifically identified.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely routes of exposure: Eye and skin contact, ingestion, and inhalation of spray mist where generated.

Acute effects: Possible transient superficial eye irritation, slight skin irritation, and nausea, vomiting, or mild gastrointestinal irritation following ingestion of several ounces.

Chronic effects / target organs: No chronic health effects or target organs identified in the available product information.

Carcinogenicity: The finished consumer product has historically been reported as not carcinogenic. NTP: No. IARC: No.

Numerical measures of toxicity: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Available product information indicates that no significant concerns were expected for aquatic organisms at anticipated environmental concentrations under normal and foreseeable consumer use.

Environmental fate: The product is intended for dispersive use. Avoid uncontrolled environmental release and do not dispose of bulk quantities directly into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of contents and container in accordance with applicable federal, state, and local regulations.

Waste classification: Waste classification must be determined based on the waste as generated and applicable requirements.

Household disposal / wastewater: Household disposal and wastewater discharge must comply with local regulations and sewer authority requirements. This is not authorization for bulk disposal.

SECTION 14 – TRANSPORT INFORMATION

U.S. DOT (ground): Reported as non-regulated. Confirm classification for current formulation, packaging, and shipment conditions.

IMDG (sea): Reported as non-regulated. Confirm before shipment.

IATA (air): Reported as non-regulated. Confirm before shipment.

UN number / proper shipping name / hazard class / packing group: Not assigned.

SECTION 15 – REGULATORY INFORMATION

This product is formulated and marketed as a minimum-risk pesticide under Section 25(b) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as implemented by 40 CFR § 152.25(f).

Products meeting the applicable minimum-risk pesticide exemption criteria are exempt from federal pesticide registration requirements administered by the U.S. Environmental Protection Agency (EPA).

Garlic Research Labs, Inc. is responsible for ensuring that the product's formulation, labeling, and marketing claims meet the applicable exemption criteria.

SECTION 16 – OTHER INFORMATION

Preparation / revision date: November 17, 2026.

Supersedes: Garlic Barrier AG+ SDS dated March 23, 2022.

Prepared by: Garlic Research Labs, Inc.

Disclaimer: This Safety Data Sheet summarizes available product and manufacturing information. The manufacturer is responsible for maintaining accurate formulation records and ensuring that ingredient identities, concentrations, physical and toxicological data, hazard classification, emergency contact information, and applicable regulatory requirements are current and accurate.