

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION 1. IDENTIFICATION

Product Identifier: Biofilm Buster Product Use: Carbamate Based Treatment EPA Reg. #: 1448-180-11712 Manufactured By: Ecolink PO Box 9 Tucker, GA 30085 www.ecolink.com	Product Identification # (PIF): 5004 Emergency Telephone #: 1-800-255-3924 Date Prepared: March 14, 2019 Date Revised: September 21, 2021
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SECTION 2. HAZARD(S) IDENTIFICATION

GHS Hazard Codification



Signal Word: **WARNING**

Hazard Class	Category	Code	Hazard Statement
Skin Irritation	2	H315	Causes skin irritation
Serious Eye Irritation	2A	H319	Causes serious eye irritation

Precautionary Measures:

Category	Code	Statement
Prevention	P264 P280	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352 P321 P332+P313 P362 P305+P351+P338	IF ON SKIN: Wash with soap and water. Specific treatments: See Section 4 First Aid Measures. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do so. Continue rinsing.
Storage	P403+P235	Store in a well ventilated place. Keep Cool.
Disposal	P501	Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations.

Hazards not otherwise classified: Prolonged/repeated skin contact may cause skin defatting (dermatitis). Inhalation of mists/sprays may cause irritation to the respiratory tract. Prolonged inhalation may be harmful.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration Range %
Potassium dimethyldithiocarbamate	128-03-0	10 -25

SECTION 4. FIRST AID MEASURES

Eyes: Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses and continue rinsing. Seek medical attention if irritation persists.
Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation develops and persists, seek medical attention.
Inhalation: If symptoms develop, move victim to fresh air. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration and call a physician.
Ingestion: DO NOT INDUCE VOMITING. Call a physician immediately. Rinse mouth. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

SECTION 5. FIRE-FIGHTING MEASURES

Flammability: Not flammable
Flash Point: Not flammable
Extinguishing Media: Foam, dry chemical, carbon dioxide fire extinguishers, water spray. Do not spray water directly on fire. Use water spray to cool containers.
Specific hazards arising from chemical: Directing a solid stream of water into a hot burning liquid can cause frothing and spread the fire.
Hazardous combustion products: Oxide of carbon.
Firefighting protective equipment: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.
Sensitivity to static discharge: This product is not sensitive to static discharge.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (Section 8). Eliminate all ignition sources. Ventilate area. Wash thoroughly after handling.

For Small Spills: Avoid release to the environment – collect spillage. Spilled material may be slippery. Avoid dispersal of material and runoff into soil, waterways, drains and sewers. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Wash walking surfaces with water. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.

For Large Spills: Large spills cannot occur due to packaging.

SECTION 7. HANDLING AND STORAGE

Handling: Wear personal protection equipment (Section 8). Use with adequate ventilation. Do not premix with other chemicals. Empty containers may contain residue and can be dangerous. Do not eat, drink or smoke in work areas. Wash thoroughly after handling.

Storage: Keep away from heat, flame, or sunlight. Keep from freezing. Keep container closed when not in use. Protect from physical damage. Store away from strong oxidizing agents, acids, strong alkalis, disinfectants and antibacterials.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS #	OSHA/PEL	ACGIH/TLV	STEL
Potassium dimethyldithiocarbamate	128-03-0	Not determined	Not determined	Not determined

Engineering Controls: Provide adequate ventilation. Observe occupational exposure limits and keep the risk of exposure to a minimum.

Personal protective equipment:

Eye: Safety glasses with side shields or splash proof goggles.

Skin: Chemical resistant (impervious) gloves. Normal materials handling clothing.

Respirator: Use NIOSH approved protection if PEL is exceeded or if vapors are causing irritation.

Other: Use only in a well ventilated area. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow, clear liquid	Upper/Lower flammability limits	Not determined
Odor	Pungent	Vapor pressure	Not determined
Odor threshold	Not determined	Vapor density (Air = 1)	<1
pH	13.6	Relative Density (water = 1.0)	1.075 g/ml
Melting point	Not determined	Solubility	Complete in water
Freezing point	Not determined	Partition coefficient	Not determined
Boiling point	>100°C	Auto-ignition temperature	Not determined
Flash point	Not determined	Decomposition temperature	Not determined
Evaporation rate (n-butyl acetate=1)	<1	Viscosity	Water thin
Flammability	Not flammable	%Volatile/Volume	0

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under normal, ambient temperature and conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Heat, flame and sparks. Keep from freezing. Do not mix with other chemicals.

Incompatible materials: Avoid strong oxidizing agents.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral (LD50 Rat): 2030 mg/kg

Dermal (LD50 Rabbit): 2990 mg/kg

Inhalation (LC50 Rat): Not available

Skin corrosion/irritation: Sensitization of the product. Not available.

Serious eye damage/irritation: Very hazardous in case of eye contact (irritant corrosive). Inflammation of the eye is characterized by redness, watering and itching.

Respiratory: Inhalation of mists/sprays may cause irritation of respiratory tract. Symptoms may include coughing and difficulty breathing.

Respiratory or skin sensitization: Not classified Germ cell mutagenicity: No data available Carcinogenicity: NTP/IARC/OSHA

Carcinogen: No Reproductive toxicity: Not available.

STOT-single exposure: Not classified STOT-repeated exposure: Not classified Aspiration hazard: Not classified.

Ingestion: Not expected to be irritating.

Likely routes of exposure: Eyes, skin

Interactive effects: Not available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

48h LC-50 (fDaphnia magna): 0.34 mg/l

96h EC-50 (Rainbow trout): 0.36 mg/l

96h LC-50 (Flathead minnow): 0.06 mg/l

Persistence and degradability: Expected to be readily biodegradable.

Bioaccumulative potential: Not determined.

Mobility in soil: Soil mobility not determined. This product is soluble in water and may spread in water systems.

Other adverse effects: This product can increase the pH of an aquatic environment, and thus be toxic to fish and aquatic plants. As with all chemicals, work practices should be aimed at eliminating environmental releases.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Do not dump into sewers, on the ground or into any waterways. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

RCRA: Not applicable.

SECTION 14. TRANSPORT INFORMATION

United States DOT:

UN1719 (Caustic Alkali Liquid, N.O.S., Potassium dimethyldithiocarbamate).

Class: 8

P.G. III

IATA and IMDG:

UN1719 (Caustic Alkali Liquid, N.O.S. Potassium dimethyldithiocarbamate).

Class: 8

P.G. III

Marine Pollutant (IMDG Code): This product is toxic to fish.

Transportation in bulk (IMDG - Annex II of MARPOL 73/78 and IBC Code): Not offered in bulk for transport overseas.

SECTION 15. REGULATORY INFORMATION

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312:

Immediate (Acute) Health	Yes	Fire Hazard	Yes
Delayed (Chronic) Health	No	Reactive Hazard	No

SARA Title 313: Potassium dimethyldithiocarbamate.

CERCLA: This product does not have a reportable quantity.

Clean Air Act: This material does not contain any hazardous air pollutants.

Clean Water Act: Not listed.

United States Right-To-Know: None known.

Proposition 65: This product may contain Substance(s) which are known to the State of California to cause cancer or reproductive harm.

FIFRA: This product is a registered pesticide. EPA Reg No. 1448-180-11712.

RCRA: Not applicable.

SECTION 16. OTHER INFORMATION

Date Revised: May 10, 2021. Revised for change in raw material.

Hazard Ratings (HMIS): Health 3, Flammability 1, Reactivity 1 (Scale 0 – 4). Personal Protection Rating to be supplied by user based on use conditions.

Carefully read all instructions on label before handling this product.

Keep out of reach of children.

“FOR INDUSTRIAL USE ONLY”

Abbreviation	Full Name/Explanation
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CNS	Central Nervous System
CFR	Code of Federal Regulations
DOT	Department of Transportation
EC	Effective Concentration
HMIS	Hazardous Material Information System
LC	Lethal Concentration
LD	Lethal Dose
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
VOC	Volatile Organic Compounds

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.