

MATERIAL SAFETY DATA SHEET

Date Revised: 7-19-06
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Section 1 Product Information

Product Name: **MICROBE-LIFT Algaway 5.4**

EPA Reg. No.: 14802-8-74466

Product is not considered a hazardous substance under OSHA 29 CFR 1910, 1200

Section 2 Hazardous Components Information

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedichloride]

CAS No. 31512-74-0

OSHA PEL n/a

ACGIH TLV n/a

Other n/a

% w/w 5.4

Note: The active ingredient in this product is derived from WSCP, EPA Reg. No. 1448-32.

Section 3 Physical/Chemical Characteristics

Color Light Amber
Physical State Liquid
Odor Mild unpleasant odor
Chemical Incompatibility Compatible
Flammability >99.5°C
Explosibility NA
pH 7.38
Viscosity 1.521 (20°C); 1.005 (40°C) Kinematics/Centistokes
Density/Bulk Density 1.013g/mL @ 20°C
Solubility in water: Complete in water, incomplete or none in most solvents
Boiling Point: > 100 °C

Section 4 Fire and Explosion Hazard Data

Flash Point (method used): none
Flammable Limits: LEL n/d
UEL n/d
Extinguishing Media: Water, foam, carbon dioxide, or dry chemical
Special Firefighting Procedures: none
Unusual Fire and Explosion Hazard: none known

Section 5 Reactivity Data

Stability: stable
Conditions to Avoid: none known
Incompatibility (materials to avoid): anionic polymers
Hazardous Polymerization: will not occur
Conditions to Avoid: none known
Hazardous Decomposition Products: not known, perhaps carbon monoxide upon burning

Section 6 Health Hazard Data (for WSCP)

Hazards Overview:

Exposure	Effect
Eyes	Product is not known to be an eye irritant. Direct contact with the eye may cause discomfort, tearing and redness.
Skin	Product is not known to be a skin irritant.
Swallowed	Product has not been classified as "harmful by ingestion".
Inhaled	Product is only available as a liquid; inhalation is not applicable.
Long Term	Long term exposure is not known to have any adverse health effects.

Acute Exposure: eye irritant, skin irritant, mucous membrane irritant
 ingestion not considered a normal route of exposure

Chronic Exposure: effects not fully evaluated

Toxicology: Acute Oral LD₅₀ (male rat) 1951 mg/Kg
 Acute Oral LD₅₀ (female rat) 2587 mg/Kg
 Acute Dermal LD₅₀ (rabbit) > 2000 mg/Kg
 Acute Inhalation LC₅₀ (rat) 2.9 ppm at 4 hours

Carcinogenic Potential: not shown as a carcinogen by OSHA, IARC, or NTP
 not considered a carcinogen

Target Organs: upper respiratory tract, skin, eyes

Section 7 Environmental Toxicology (for WSCP)

LC ₅₀	Invertebrate	0.37 mg/L at 48 hours
	Fathead Minnow	0.26 mg/L at 96 hours
	Bluegill Sunfish	0.21 mg/L at 96 hours
	Rainbow Trout	0.047 mg/L at 96 hours
	Sheepshead Minnow	> 600 mg/L at 96 hours
	Mysid Shrimp	13 mg/L at 96 hours

Section 8 Emergency / First Aid Procedures

If in Eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

If on Skin, Clothes:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If Swallowed:

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water, if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

Section 9 Precautions for Safe Handling and Use

Eye-wash stations are recommended near area of use
 PPE for eyes and skin are strongly advised
 Contain/soak spill by using a proper absorbent and water
 Dispose of material in accordance with Federal, State, and Local regulations
 Store in moderately cool area

Section 10 Transportation and Shipping Information

Not DOT regulated
 Not IATA regulated
 DOT "RQ": none

Section 11 Regulatory Information

SARA 312 Hazard Category: Immediate (acute)

FDA: not approved for food contact use

TSCA: registered pesticides are exempt

FIFRA: this product is a registered pesticide (see EPA Reg. No. above)

NFPA Rating: Health 1
 Flammability 1
 Reactivity 0

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