



Ecological Laboratories INC.

Providing Aquatic Solutions Since 1976

SAFETY DATA SHEET

VERSION 1.1

Revision Date : April 2015

Section 1 : IDENTIFICATION

Product Identifier : MICROBE LIFT ALGAWAY 60

Brand : MICROBE-LIFT

Product Number NA

Manufacturer: Ecological Laboratories Inc.

Address : 2525 N.E. 9th Avenue
Cape Coral, FL 33909

Phone : (800)645-2976

Emergency : (800) 424-9300

Outside USA : (202) 483 7616

Recommended Use: Used for removing algae from pond/lake

EPA Reg No : 1448-114-7446

Section 2 : HAZARD(S) IDENTIFICATION

Hazard Classification : Skin & Eye Irritant

Signal Word : Caution

Hazard Statement: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Wear chemical resistant eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash clothing before reuse.

Pictograms :



Precautionary Statements : Keep out of reach of children

Description of hazard not otherwise classified : NA

Mixture containing an ingredient with unknown toxicity : Inert ingredients – 40%

Section 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name : Poly [oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedichloride]

Common Name & Synonyms : Microbe-Lift Algaway 60

Chemical Abstracts Service (CAS) number and unique identifiers: 31075-24-8

Impurities & Stabilizing Additives : NA

Chemical Name and Concentration of all ingredients (classified as health hazard) :

NA

Chemical composition (non-hazardous materials) and its exact percentage have been withheld as a trade secret.

Section 4 : FIRST AID MEASURES

Note: The product has been classified as a non-hazardous substance.

If inhaled

Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure. If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty on breathing or is cyanotic seek a health care professional immediately.

In case of skin contact

Slightly hazardous in case of skin contact (irritant). Non-sanitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Wash exposed area with plenty of water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

In case of eye contact

This material may cause eye irritation. Rinse with plenty of lukewarm water, also under eyelids. If symptoms persist, call a physician. Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist for further evaluation

If swallowed

DO NOT INDUCE VOMITTING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one to two glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

Section 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the environment. Extinguishing media – Water, Fog, Carbon dioxide, Foam, Dry chemical

Special equipment

In the event of fire, wear self-contained breathing apparatus

Special hazards arising from the substance or mixture

NA

Advice for firefighters

; Fire fighters should wear positive pressure self-contained breathing apparatus and full turnout gear.

Section 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

SPILL AND LEAK RESPONSE GUIDELINES:

Important: Before responding to a spill or leak of this product, review each section of this SDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed area.

Initially minimized area affected by the spill or leak. Block any potential routs to water systems (e.g. sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water system, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimized adverse effects on these environments. Determine if federal, state, and /or local release notification is required (see Regulatory Classification section of this MSDS). Recover as much of the pure products as possible into appropriate containers. Later, determined if this recovered product can be used for its intended purpose. Address clean-up contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil or commercially available absorbents may be used to recover any material that cannot readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spills/leak residuals are flushed to an industrial sewer insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills or leaks of this product to the industrial sewer.

Environmental Precautions

Cover the drains to prevent the product from entering the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on PPE

See Section 13 for disposal information.

Section 7 : HANDLING & STORAGE

Precautions for safe handling

No refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for the later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning, if appropriate, or by other procedures if approved by state and local authorities.

Rubber gloves, safety glasses or goggles and body protective clothing and shoes are required.

Conditions for safe storage, including any incompatibilities

Keep container closed when not in use.

Specific end use(s)

Eye wash fountains in the workplace are recommended. The handling precautions for this product are based on the characteristics of the neat product unless otherwise specified.

Section 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

None

Components with workplace control parameters

Contains no substance with occupational exposure limit values.

Exposure controls

Material transfer should be done under conditions of local exhaust ventilation to avoid breathing mist.

Permissible Exposure Limit (PELs)

None

Threshold Limit Values (TLVs)

None

Appropriate engineering controls

Exhaust equipment.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles must be worn.

Skin protection

Skin should be covered by clothing at a minimum. Avoid excessive skin contact.

Body protection

Same as above

Respiratory protection

Dusk mask in absence of local exhaust ventilation, approved respirators are recommended.

Control of environmental exposure

Minimized environmental exposure.

Section 9 : PHYSICAL & CHEMICAL PROPERTIES

Appearance

Clear, pale yellow liquid

Odor

Mild

pH

Range 6.0 to 8.0

Melting point/freezing point

<-16 C (3.2 F)

Initial Boiling Point

Greater than 100 C (>212 F)

Flash Point

Closed cup:>100 C (212 F) (Tagliabue)

Flammability (solid, gas)

NA

Relative Density

1.15 g/cm³

Water Solubility

Easily soluble in cold water /hot water

Viscosity

Kinetic :125 cS

Section 10 : STABILITY AND REACTIVITY

Chemical stability

Stable under normal conditions of use and storage.

Incompatible materials

Incompatibility to Anionic polymers

Hazardous decomposition products

Carbon monoxide may be formed upon burning

Section 11 : TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Chronic Toxicity

N/A

Reproductive Toxicity

N/A

Additional Information

None

Section 12 : ECOLOGICAL INFORMATION

Toxicity

LC50 = 0.37 mg/l 48 hours Invertebrate
LC50 = 0.26 mg/l 96 hours Fathead minnow
LC50 = 0.21 mg/l 96 hours Bluegill sunfish
LC50 = 0.047 mg/l 96 hours Rainbow trout
LC50 = >600 mg/l 96 hours Sheep head minnow
LC50 = 13 mg/l 96 hours Mysid shrimp

Other adverse effects

None

Section 13 : DISPOSAL CONSIDERATIONS

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservative and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic of the material to be disposed of and/or the physical and reactivity data given in this MSDS.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residual remaining in container.

Section 14 : TRANSPORT INFORMATION

DOT (US)

UN Number

N/A

Not IATA regulated

DOT "RQ" : none

Section 15 : REGULATORY INFORMATION

SARA 312 Hazard Category: Immediate (acute)

FDA: Not approved for food contact use

TSCA: All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.

FIFRA: This product is a registered pesticide (EPA Reg. No. 1448-42)

Section 16 : OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

This product conforms on its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. However the manufacturer could withdraw the chemical composition of the product on the basis of it being a trade secret.

29 CFR 1910.1200 (I)(1)

The safety data sheet indicates that the specific chemical identity and/or percentage of composition is being withheld as a trade secret; The specific chemical identity and percentage is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort. Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settle by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.