

# SAFETY DATA SHEET

### 1. Identification

Product identifier No. 85 Algaecide (4108-08)

Other means of identificationNot available.Recommended useAlgaecideRecommended restrictionsNone known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Nu-Calgon

Address 2611 Schuetz Road

**United States** 

**Telephone** 314-469-7000 / 800-554-5499

E-mail Not available.

Emergency phone number 1-800-424-9300 (CHEMTREC)

## 2. Hazards Identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Serious eye damage/eye irritation Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. Harmful if inhaled.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Wear eye protection. Avoid breathing vapors. Use only outdoors

or in a well-ventilated area.

Response IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of container in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information**This is a registered EPA product. The product labeling is in compliance with EPA regulations and

guidelines.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## 3. Composition/Information on Ingredients

### **Mixtures**

dichloride

Chemical name	Common name and synonyms	CAS number	%
Poly[oxyethylene(dimethyliminio)eth		31512-74-0	30
ylene(dimethyliminio)ethyle	ene		

# 4. First Aid Measures

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further

treatment advice.

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If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water Skin contact

for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person Ingestion sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison

control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

treatment needed **General information** 

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 800-424-9300 for emergency medical treatment information.

# 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

Treat for surrounding material.

### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

Never return spills to original containers for re-use. Prevent entry into waterways, sewers, basements or confined areas.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

## 7. Handling and Storage

Precautions for safe handling

Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Avoid contact with skin and clothing. Avoid breathing vapors or mists of this product. Keep container tightly closed.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Conditions for safe storage, including any incompatibilities Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep out of reach of children. Do not contaminate water, food or feed by storage or disposal. Keep container closed when not in use.

## 8. Exposure Controls/Personal Protection

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear protective eyewear (goggles or face shield).

Skin protection

Chemical resistant gloves. Hand protection

Other

Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material (such as any waterproof material, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC) or

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Avoid breathing mists or vapors. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

### 9. Physical and Chemical Properties

Liquid **Appearance** Liquid. Physical state **Form** Liquid Amber Color

Characteristic Odor **Odor threshold** Not available. 6.5 (Concentrate) Melting point/freezing point 32 °F (0 °C)

Initial boiling point and boiling

range

212 °F (100 °C)

Not available

Not available. Pour point

Specific gravity 1 07

Partition coefficient

(n-octanol/water)

None to boiling Flash point Not available **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available

Flammability limit - upper

Not available

Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Not available.

Vapor pressure Not available Vapor density Not available Not available. Relative density Complete Solubility(ies) Not available **Auto-ignition temperature** Not available. **Decomposition temperature** Not available Viscosity

### 10. Stability and Reactivity

This product may react with strong oxidizing agents. Reactivity

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Oxidizers. Acids.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

## 11. Toxicological Information

Information on likely routes of exposure

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system

effects (headache, dizziness).

**Skin contact** Harmful if absorbed through skin.

**Eye contact** Moderate eye irritation.

**Ingestion** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Product Species Test Results

No. 85 Algaecide (4108-08) (CAS Mixture)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, Tested

Inhalation

LC50 Rat > 2.9 mg/l/4h, Tested

Oral

LD50 Rat > 1951 mg/kg, Tested

Components Species Test Results

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride (CAS 31512-74-0)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 1850 mg/kg, Buckman Laboratories, Inc.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

r tot a vallable

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

Non-hazardous by OSHA criteria.

Carcinogenicity

Non-hazardous by OSHA criteria.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1)

Bis(2-chloroethyl) ether (CAS 111-44-4)

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Non-hazardous by OSHA criteria. Reproductive toxicity

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

Not classified.

repeated exposure

**Aspiration hazard** 

Not available

**Chronic effects** 

Non-hazardous by OSHA criteria.

**Further information** 

Not available.

## 12. Ecological Information

**Ecotoxicity** This pesticide is toxic to fish, aquatic organisms and clams.

> Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior

to discharge.

Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**Ecotoxicological data** 

Components Species **Test Results** 

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride (CAS 31512-74-0)

Aquatic

Fish LC50 Harlequinfish, red rasbora (Rasbora 0.17 mg/L, 96 hours

heteromorpha)

Persistence and degradability

No data is available on the degradability of this product.

No data available. **Bioaccumulative potential** Mobility in soil No data available. Not available. Mobility in general

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal Considerations

**Disposal instructions** Nonrefillable container. Do not reuse or refill the container. Collect and reclaim or dispose in

sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site

or at an approved waste disposal facility.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport Information

### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### IATA/ICAO (Air)

Not regulated as dangerous goods.

#### **IMDG** (Marine Transport)

Not regulated as dangerous goods.

## 15. Regulatory Information

#### **US federal regulations**

This is an EPA registered product. This material can only be used commercially in the EPA registered application(s) noted on the product label.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

EPA Registration Number 1448-233-65516 EPA Est. # 72026-IL-1

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. CAUTION: Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material (such as any waterproof material, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC) or Viton).

USER SAFETY RECOMMENDATIONS: User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

USER SAFETY REQUIREMENTS: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear protective eyewear (goggles or face shield). Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material (such as any waterproof material, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC) or Viton)

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, aquatic organisms and clams. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide
Act (FIFRA) and is therefore exempt from US Toxic Substances Control Act (TSCA) Inventory
listing requirements.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No

**Classified hazard** categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**Food and Drug** 

Not regulated.

Administration (FDA)

#### **US** state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### California Proposition 65



WARNING: This product can expose you to chemicals including 1,4-dioxane, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

> 1,4 Dioxane (CAS# 123-91-1): 10 ppm max Dichloroethyl ether (CAS# 111-44-4): 10 ppm max

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988 Bis(2-chloroethyl) ether (CAS 111-44-4) Listed: April 1, 1988

Country(s) or region

Inventory name

On inventory (yes/no)\*

Nο

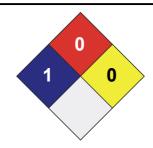
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

#### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty. expressed or implied, is made and supplier will not be liable for any losses, injuries or

consequential damages which may result from the use of or reliance on any information contained

in this document. Issue date 26-January-2022 26-January-2022 **Revision date** 

Version # 03

**Further information** Not available.

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the Other information

document.

Nu-Calgon Technical Service Phone: (314) 469-7000 Prepared by

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