

SAFETY DATA SHEET

ALGAESTROY



Revision Date: 2015.05.28

SECTION 1. IDENTIFICATION

Product name : NUCLO, PRIVATE LABEL ALGAESTROY, 50% ALGAECIDE
Recommended Use : Pool Chemical
Product code : 2025

Manufacturer or supplier's details

Company : **Alden Leeds, Inc.**
55 Jacobus Ave.
So. Kearny, NJ 07032
(973) 589-3544

Web address : www.aldenleeds.com
Emergency telephone number : CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

The consumer variant of this product is labeled in accordance with regulations administered by the consumer product safety commission (CPSC) and the food and drug administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration (OSHA) applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 4
Skin corrosion : Category 1B
Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No

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smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5	49.80
Propan-2-ol	67-63-0	10.00
Water	7732-18-5	40.00

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
Call a physician immediately.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and

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- water.
Call a physician immediately.
Take off all contaminated clothing immediately.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Call a physician immediately.
- If swallowed : Call a physician immediately.
Clean mouth with water and drink afterwards plenty of water.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry powder
Water spray
Foam
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions
- General advice : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes.
Provide sufficient air exchange and/or exhaust in work rooms.
- Conditions for safe storage : Keep container tightly closed.
To maintain product quality, do not store in heat or direct sunlight.
- Materials to avoid : Keep away from food, drink and animal feedingstuffs.
- Recommended storage temperature : < 60.0 °C

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		REL	400 ppm 980 mg/m ³	NIOSH/GUIDE
		STEL	500 ppm 1,225 mg/m ³	NIOSH/GUIDE
		PEL	400 ppm 980 mg/m ³	OSHA_TRANS
		TWA	400 ppm 980 mg/m ³	Z1A
		STEL	500 ppm 1,225 mg/m ³	Z1A
		TWA	200 ppm	CAD ON OEL
		STEL	400 ppm	CAD ON OEL

Appropriate engineering controls

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection :
 Material : Nitrile rubber
 Rate of permeability : > 480 min
- Eye protection : Tightly fitting safety goggles
 Face-shield
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Rubber or plastic apron
 Rubber or plastic boots
- Hygiene measures : Avoid contact with skin, eyes and clothing.
 Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : light yellow
- Odour : characteristic
- Odour Threshold : no data available

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pH	: 6.5 - 8.3, Concentration: 100 g/l (25 °C)
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: 38 °C Method: Setaflash Closed Tester (ASTM D3278), closed cup Does not sustain combustion according to ASTM 4206
Evaporation rate	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: 0.96 g/cm ³ (25 °C)
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity Viscosity, dynamic	: < 100 mPa.s (25 °C)
Viscosity, kinematic	: no data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: Stable under normal conditions.
Conditions to avoid	: no data available
Incompatible materials	: Reducing agents Strong oxidizing agents
Hazardous decomposition products	: Nitrogen oxides (NO _x) Hydrogen chloride gas Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure : Inhalation
Ingestion
Eyes
Skin

Acute toxicity

Acute dermal toxicity (LD50) : 7,100 mg/kg
Species: Rabbit (male)

Acute dermal toxicity (LD50) : 6,300 mg/kg
Species: Rabbit (female)

Further information

Remarks: Information given is based on data obtained from similar substances.
No data is available on the product itself.

The following toxicological data refer to:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS-No.: 68424-85-1)

Acute toxicity

Acute oral toxicity (LD50) : ca. 344 mg/kg
Species: Rat

Acute dermal toxicity (LD50) : ca. 3,340 mg/kg
Species: Rabbit
Exposure time: 24 h

Skin corrosion/irritation

Skin irritation : Corrosive
Species: Rabbit
Exposure time: 24 h
Method: DOT

Serious eye damage/eye irritation

Eye irritation : Corrosive
Species: Rabbit
Method: DOT

Respiratory or skin sensitisation

Sensitisation : Test Type: Buehler Test
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
Result: not sensitizing
GLP: yes

Germ cell mutagenicity

Genotoxicity in vitro : negative
Ames test, Salmonella typhimurium
Metabolic activation: yes
Method: OECD Test Guideline 471
GLP: yes

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negative
Chromosome aberration test in vitro, Human lymphocytes
Metabolic activation: yes Method: OECD Test Guideline 473
GLP: yes

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

Components:

Propan-2-ol

Partition coefficient: n-octanol/water : log Pow: 0.05 (25 °C)

Mobility in soil

no data available

Other adverse effects

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.

The following ecotoxicological data refer to:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS-No.: 68424-85-1)

Ecotoxicity

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Toxicity to fish (LC50)	: 0.28 mg/l Species: Pimephales promelas (fathead minnow) Acute toxicity Exposure time: 96 h Analytical monitoring: yes Method: US-EPA GLP: yes
Toxicity to fish (NOEC)	0.032 mg/l Species: Pimephales promelas (fathead minnow) Early-life Stage Exposure time: 34 d Analytical monitoring: yes Method: EPA-FIFRA GLP: yes
Toxicity to daphnia and other aquatic invertebrates (EC50)	: 0.016 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (NOEC)	: 0.0042 mg/l Species: Daphnia magna (Water flea) Reproduction Test Exposure time: 21 d Analytical monitoring: yes Method: EPA-FIFRA GLP: yes
Toxicity to algae (ErC50)	: 0.049 mg/l Species: Pseudokirchneriella subcapitata (green algae) Cell multiplication inhibition test Exposure time: 72 h Test Type: Cell multiplication inhibition test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to algae (EC50)	0.12 mg/l Species: Lemna gibba Growth inhibition Exposure time: 7 d Test Type: Growth inhibition Analytical monitoring: yes Method: US-EPA

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Toxicity to algae (ErC50)	0.089 mg/l Species: algae Growth inhibition Exposure time: 96 h Test Type: Growth inhibition Analytical monitoring: yes Method: US-EPA GLP: yes
M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 1
Toxicity to bacteria (EC50)	: 7.75 mg/l Species: activated sludge Respiration inhibition Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): 7,070 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 EC50: > 1,000 mg/kg Exposure time: 28 d Method: OECD Test Guideline 216 GLP: yes
Plant toxicity	: EC50: 277 - 1,900 mg/kg Exposure time: 14 d End point: Growth inhibition Method: OECD Test Guideline 208

Persistence and degradability

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Biodegradability : Test Type: OECD Confirmatory Test
Biodegradation: > 90 %
Method: OECD Test Guideline 303 A

Test Type: Modified SCAS Test
Biodegradation: > 99 %
Exposure time: 7 d
Method: OECD Test Guideline 302 A
GLP: yes

Test Type: CO2 Evolution Test
Concentration: 5 mg/l
Result: Readily biodegradable
Biodegradation: 95.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Stability in water : Method: EPA-FIFRA
GLP: yes

Bioaccumulative potential

no data available

Mobility in soil

Distribution among environmental compartments : Adsorption/Soil
Method: EPA-FIFRA

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.

Contaminated packaging : CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
Dispose of as unused product.

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SECTION 14. TRANSPORT INFORMATION

IATA

UN number	: 2920
Proper shipping name	: Corrosive liquid, flammable, n.o.s. (N-Alkyl(C12-18)-N,N-dimethyl-N-benzylammonium chloride / Isopropanol)
Transport hazard class	: 8
Packing group	: II
Labels	: 8 (3)
Environmental hazards	: no

IMDG

UN number	: 2920
Proper shipping name	: Corrosive liquid, flammable, n.o.s. (N-Alkyl(C12-18)-N,N-dimethyl-N-benzylammonium chloride / Isopropanol)
Transport hazard class	: 8
Packing group	: II
Labels	: 8 (3)
EmS Number 1	: F-E
EmS Number 2	: S-C
Environmental hazards	: Marine pollutant: yes

ADR

UN number	: 2920
Proper shipping name	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (N-Alkyl(C12-18)-N,N-dimethyl-N-benzylammonium chloride / Isopropanol)
Transport hazard class	: 8
Packing group	: II
Classification Code	: CF1
Hazard Identification Number	: 83
Labels	: 8 (3)
Environmental hazards	: yes

RID

UN number	: 2920
Proper shipping name	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (N-Alkyl(C12-18)-N,N-dimethyl-N-benzylammonium chloride / Isopropanol)
Transport hazard class	: 8
Packing group	: II
Classification Code	: CF1
Hazard Identification Number	: 83
Labels	: 8 (3)
Environmental hazards	: yes

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DOT

UN number : 1903
Proper shipping name : Disinfectants, liquid, corrosive n.o.s.
(N-Alkyl(C12-18)-N,N-dimethyl-N-benzylammonium chloride)
Transport hazard class : 8
Packing group : II
Labels : 8
Emergency Response Guidebook Number : 153
Environmental hazards : no

TDG

UN number : 2920
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(N-Alkyl(C12-18)-N,N-dimethyl-N-benzylammonium chloride / Isopropanol)
Transport hazard class : 8
Packing group : II
Labels : 8 (3)
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : E: Corrosive Material
B2: Flammable liquid

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)

SARA 311/312 Hazards : Acute Health Hazard

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Propan-2-ol 67-63-0 10 %

US State Regulations

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Massachusetts Right To Know

Propan-2-ol	67-63-0
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Pennsylvania Right To Know

Propan- -ol	67-63-0
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New Jersey Right To Know

Propan-2-ol	67-63-0
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The components of this product are reported in the following inventories:

- : This product can only be used commercially in the EPA registered application(s) noted on the product label.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Revision Date : 2015.05.28

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.