

Material Safety Data Sheet

WINTER CARE™ WINTER ALGAECIDE

Version: 1.0

Revision Date: 12/09/2010

Print Date: 03/23/2011

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *WINTER CARE™ WINTER ALGAECIDE*

Product Use Description: Recreational Water Product

Chemical nature: Quaternary ammonium compounds

Registration number: 6836-157-10305

Company: Manufacturer
Asepsis, Inc.
OMNI POOL PRODUCTS
P.O. Box 1788
Suwanee, GA
30024-0973

Telephone: (800) 959-7946

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300, 703-527-3887
Poison Control Center (Medical) :: (877) 800-5553

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
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+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Form: liquid Colour: blue Odour: Almond-like

Hazard Summary

:
Corrosive
Causes serious eye damage.
May be fatal if swallowed.
May be corrosive to skin.
Avoid breathing vapors.
Do not get in eyes, on skin, or on clothing.

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OSHA Hazards

: THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

Potential Health Effects

Primary Routes of Entry

: Skin contact
Inhalation
Ingestion
Eye contact

Inhalation

: Irritating to respiratory system.

Skin

: Causes skin burns.

Eyes

: Causes serious eye damage.

Ingestion

: May be fatal if swallowed.

Chronic Exposure

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	40 %
ethanol	64-17-5	5 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation

: Remove 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 CENTER or doctor/ physician.

Skin contact

: Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 15 minutes.
Call a POISON CENTER or doctor/ physician.

Eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15

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minutes.
Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a POISON CENTER or doctor/ physician.

Ingestion : Call a physician or poison control centre immediately.
Have person sip a glass of water if able to swallow.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Do not give anything by mouth to a convulsing or unconscious person.

Notes to physician

Treatment : Probable mucosal damage may contraindicate the use of gastric lavage.
Measures against circulatory shock, respiratory depression and convulsion may be needed.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : 143.01 °F (61.67 °C)
Method: Pensky-Martens closed cup ASTM D 93

Fire fighting

Suitable extinguishing media : Water mist
Carbon dioxide (CO2)
Dry chemical
Foam

Further information : Products of combustion are toxic.
Heated solvent vapors can travel to an ignition source and flash back.

Protective equipment and precautions for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.
Soak up with inert absorbent material.
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.

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Additional advice : Treat recovered material as described in the section "Disposal considerations".
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing vapors.
Mix only with water.
Always add product to large quantities of water.
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.
Do not handle until all safety precautions have been read and understood.

Advice on protection against fire and explosion : Heated solvent vapors can travel to an ignition source and flash back.

Storage

Requirements for storage areas and containers : Store in original container.
Keep tightly closed.
Store in a cool, dry, well ventilated area away from heat or open flame.
Keep out of reach of children.
Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	<u>Further information</u>
ethanol 64-17-5	TWA ACGIH 2009-01-01	1,000 ppm	
	TWA OSHA P1 1997-08-04	1,000 ppm 1,900 mg/m3	
	TWA OSHA P0 1989-01-19	1,000 ppm 1,900 mg/m3	

Engineering measures

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Engineering measures : Use with adequate ventilation.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Goggles
Safety glasses with side-shields

Hand protection : Wear rubber gloves.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures : Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : blue
Odour : Almond-like

Safety data

Flash point : 143.01 °F (61.67 °C)
Method: Pensky-Martens closed cup ASTM D 93
pH : 7 - 8
Freezing point : Note: Not Available
Boiling point/boiling range : Note: Not Available
Vapour pressure : Note: Not Available
Density : 0.92 g/cm3
Water solubility : Note: completely miscible
Relative vapour density : Note: Not Available

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SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Contamination
- Materials to avoid : Remarks: Strong acids
Strong oxidizing agents
Strong bases
Do not mix with other swimming pool/spa chemicals in their concentrated forms.
- Hazardous decomposition products : Note: Organic vapors.
Inorganic vapors.
Carbon oxides
- Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50: 970 g/kg
Species: rat
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.
- Acute dermal toxicity : LD50: 2,000 g/kg
Species: rabbit
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.
- Skin irritation : Remarks: May cause burns or external ulcers.
- Eye irritation : Remarks: Causes eye burns.

12. ECOLOGICAL INFORMATION

- Toxicity to fish
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : LC50: 0.93 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
LC50: 0.515 mg/l
Exposure time: 96 h

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Species: Lepomis machrochirus (Bluegill)

Toxicity to daphnia and other aquatic invertebrates.

Quaternary ammonium : EC50: 0.0058 mg/l

compounds, benzyl-C12-16- Exposure time: 48 h

alkyldimethyl, chlorides Species: Daphnia magna (Water flea)

Bioaccumulation

Quaternary ammonium : Bioconcentration factor (BCF): 79

compounds, benzyl-C12-16-

alkyldimethyl, chlorides

Further information on ecology

Additional ecological : Toxic to fish.
information

Do not discharge effluent containing this product into lakes, streams, ponds or 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.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.

Contaminated packaging : Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1760

Description of the goods : Corrosive liquids, n.o.s.

: (Quaternary ammonium compounds)

Class : 8

Packing group : II

ERG Code : 154

IATA

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UN number : 1760
Description of the goods : Corrosive liquid, n.o.s.
(Quaternary ammonium compounds)
Class : 8
Packing group : II

IMDG

UN number : 1760
Description of the goods : CORROSIVE LIQUID, N.O.S.
(Quaternary ammonium compounds)
Class : 8
Packing group : II
EmS Letter 1 : F-A
EmS Letter 2 : S-B

Marine pollutant : yes
Quaternary ammonium compounds

Not recommended for shipment by air
ORM-D Consumer Commodity exemption possible
Limited Quantity exemption possible
Not regulated by DOT and TDG if shipped or transported in packaging less than 450
liters by road and/or rail.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : This material is hazardous under the criteria of the Federal OSHA Hazard
Communication Standard 29CFR 1910.1200.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

The components of this product are reported in the following inventories:
TSCA Not On TSCA Inventory

TSCA
Note: Listed

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DSL	This product contains the following components that are not on the Canadian DSL nor NDSL lists.
AICS	Not in compliance with the inventory
NZIoC	Not in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory
CH INV	The formulation contains substances listed on the Swiss Inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3
Flammability: 2
Physical hazards: 0
PPI: Ask supervisor or safety specialist for handling instructions

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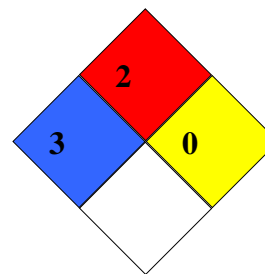
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NFPA Classification

: Health hazard: 3
Fire Hazard: 2 Class IIIA
Combustible Liquid
Reactivity Hazard: 0



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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.