FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

000000024400

PRODUCT NAME: ROBARB POOL SPECIALTIES BLACK ROBACIDE

MSDS Number:

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

 Supplier
 REVISION DATE:
 05/26/2015

 Robarb
 SUPERCEDES:
 11/02/2010

1400 Bluegrass Lakes Parkway,

Alpharetta, GA, 30004

USA SYNONYMS:

Telephone: +17705215999 CHEMICAL FAMILY: None

Telefax: +17705215959
Telefax: +17705215959
Web: www.poolspacare.com

DESCRIPTION / USE None established None established

Manufacturer

Advantis Technologies 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

**GHS Label element** 

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Hazard pictograms :





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention**:

P260 Do not breathe vapours.

P264 Wash hands 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 IF SWALLOWED: Call a POISON CENTER or

doctor/ physician if you feel unwell.

P330 Rinse mouth.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

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 IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P321 Specific treatment (see supplemental first aid instructions on

this label).

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME
QUATERNARY AMMONIUM
COMPOUNDS, BENZYL-C12-16-ALKY

CAS # 68424-85-1 % RANGE 20 - 30

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Triethanolamine	102-71-6	5 - 10
Ethanolamine	141-43-5	4 - 8
BASIC COPPER CARBONATE	12069-69-1	4 - 8
Ethanol	64-17-5	2 - 4

# **SECTION 4. FIRST AID MEASURES**

General Advice: Call a poison control center or doctor for treatment advice. For 24-hour

emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

Inhalation: IF INHALED: 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.

Skin Contact: IF ON SKIN OR CLOTHING: 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.

Eye Contact: 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 treatment advice.

Ingestion: IF SWALLOWED: Call a 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 a poison control center or doctor. Do not give

anything by mouth to an unconscious person.

## **SECTION 5. FIREFIGHTING MEASURES**

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or

explosive.

Flammable Properties

Flash Point: No data.
Autoignition Temperature: No data

Fire / Explosion Hazards: Material will not ignite or burn.

Extinguishing Media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use

normal fire-fighting equipment and the personal protective

equipment recommended in Section 8 to include a NIOSH approved

self-contained breathing apparatus.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

Upper Flammable / Explosive Limit,

% in air:

Lower Flammable / Explosive Limit,

% in air:

No data

No data

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Protection for Emergency

Situations:

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to

boots, impervious gloves, hard hat, splash-proof goggles,

impervious clothing, i.e., chemically impermeable suit, self-contained

breathing apparatus.

**Spill Mitigation Procedures** 

Air Release: Keep people away from and upwind of spill/leak.

Water Release: This material is soluble in water. Notify all downstream users of

possible contamination. Divert water flow around spill if possible and

safe to do so.

Land Release: Contain and/or absorb spill with inert material (e.g. sand,

vermiculite). Do not use clay to absorb spill. Avoid release to the

environment.

Additional Spill Information: Prevent further leakage or spillage if safe to do so. Use personal

protective equipment as required. Evacuate personnel to safe areas.

## **SECTION 7. HANDLING AND STORAGE**

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If

in eyes or on skin, rinse well with water. Avoid breathing vapours,

mist or gas.

Storage: Store in a cool, dry and well ventilated place. Isolate from

incompatible materials. Do not freeze.

Incompatible Materials for Storage:

Refer to Section 10, "Incompatible Materials."

**Empty Container Warning:** 

Empty containers retain hazardous residue, dispose of accordingly.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use local exhaust ventilation to maintain levels below exposure limits.

Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

> possible., A NIOSH approved air purifying respirator with organic vapor/N95 cartridges. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit. A NIOSH approved full-face respirator as a minimum.

Skin Protection: Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Chemical resistant goggles must be worn. Face-shield

Eye Protection:

Protective Clothing Type: Impervious, Neoprene, Butyl rubber

General Protective Ensure that eyewash stations and safety showers are close to the

Measures: workstation location.

#### Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
Triethanolamine (102-71-6)	TWA	5 mg/m3	ACGIH (02 2014)
Ethanolamine (141-43-5)	TWA	3 ppm	ACGIH (02 2014)
	STEL	6 ppm	ACGIH (02 2014)
BASIC COPPER CARBONATE (12069-69-1)	Conc	100 mg/m3	NIOSH/GUIDE (2005)
Ethanol (64-17-5)	STEL	1,000 ppm	ACGIH (02 2014)

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: liquid Form No data. Color: dark blue Odor: No data.

Molecular Weight: None established

9.5 - 9.7pH:

()

**Boiling Point:** No Data

Melting point/freezing No data

point

no data available Density

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Vapor Pressure: No data Vapor Density: > 1

Viscosity: 34.5 mPa.s

20 °C

Solubility in Water: Partition coefficient n-

Soluble

Not applicable

octanol/water:

**Evaporation Rate:** no data available Oxidizing: None established no data available

Volatiles, % by vol.: **VOC Content** 

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions

listed under the U.S. Clean Air Act Section 450.

**HAP Content** Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions., Product will not undergo

hazardous polymerization.

Rabbit

Conditions to Avoid: Heat

Chemical Incompatibility: Strong acids and oxidizing agents, Clay

Hazardous Decomposition Products: Hydrogen chloride gas, Carbon oxides, Nitrogen oxides (NOx)

Decomposition Temperature: No data

# SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

**QUATERNARY** LD50 = 426 mg/kgRat

AMMONIUM COMPOUNDS,

BENZYL-C12-16-ALKY

Triethanolamine LD50 = 7,390 mg/kgRat Ethanolamine LD50 = 1,700 mg/kgRat **BASIC COPPER** LD50 = 1,350 mg/kgRat

CARBONATE

Ethanol LD50 = 7,060 mg/kgRat

Component Animal Toxicology

Dermal LD50 value:

**QUATERNARY** No data

**AMMONIUM** COMPOUNDS. BENZYL-C12-16-ALKY

Triethanolamine LD50 > 2,000 mg/kg

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Ethanolamine LD50 Approximately 1,000 mg/kg Rabbit

BASIC COPPER no data available

**CARBONATE** 

Ethanol LD50 Believed to be > 2,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

QUATERNARY No data

AMMONIUM COMPOUNDS,

BENZYL-C12-16-ALKY

Triethanolamine A saturated vapor concentration for 8 hours (rats) did not produce any deaths.

Ethanolamine LC50 1 h > 2.42 mg/l Mouse

LC50 4 h > 970 ppm Mouse

BASIC COPPER

**CARBONATE** 

Ethanol Inhalation LC50 10 h = 20000 ppm Rat

no data available

**Product Animal Toxicity** 

<u>Oral LD50 value</u>: 1,030 mg/kg Rat Dermal LD50 value: 1,872 mg/kg Rat

Inhalation LC50 No data.

value:

Skin Irritation: Corrosive to skin Eye Irritation: Corrosive to eyes

Skin Sensitization: Not believed to be sensitising to skin.

Triethanolamine This material tested negative for skin sensitization in

animals.

Ethanolamine This material tested negative for skin sensitization in

animals.

Subchronic / Chronic There are no known or reported effects from repeated exposure except those

Toxicity: secondary to burns.

Triethanolamine Animal studies suggest that chronic (repeated)

overexposure may result in damage to the liver and

kidney.

Ethanol Prolonged or repeated ingestion may cause liver

damage.

Reproductive and Not known or reported to cause reproductive or developmental toxicity.

**Developmental Toxicity:** 

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Triethanolamine This product has been tested and was shown not to

produce any adverse effects on reproductive function or fetal development when administered to laboratory

animals.

Ethanolamine This chemical has been tested in laboratory animals

and no evidence of teratogenicity, embryotoxicity or

fetotoxicity was seen.

Ethanol This chemical has been tested in laboratory animals

and developmental and/or teratogenic effects were seen

following ingestion.

Mutagenicity: Not known or reported to be mutagenic.

Triethanolamine This chemical has been shown to be non-mutagenic

based on a battery of assays.

Ethanolamine This chemical has been tested in a battery of

mutagenicity/genotoxicity assays and the results were

negative.

Ethanol This product has been tested for mutagenicity. Tests

revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be

a mutagenic hazard.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

Triethanolamine The International Agency for Research on Cancer

(IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as

to Its Carcinogenicity to Humans.

Ethanolamine This product is not known or reported to be carcinogenic

by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown

not to cause cancer in laboratory animals.

Ethanol The International Agency for Research on Cancer

(IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans. The FDA determined

that this product is not carcinogenic in laboratory

animals.

## **SECTION 12. ECOLOGICAL INFORMATION**

Overview: Very toxic to aquatic organisms.

Ecological Toxicity Values for: QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY

Pimephales promelas (fathead - 96 h LC50 0.28 mg/l

minnow)

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Daphnia magna (Water flea) - 48 h EC50 0.25 mg/l Selenastrum capricornutum (green - 72 h ErC50 0.049 mg/l algae)

Ecological Toxicity Values for: Triethanolamine

Pimephales promelas (fathead - (measured, flow-through) 96 h LC50 = 11,800 mg/l

minnow)

Daphnia magna, - (nominal, static). 24 h EC50= 1,850 mg/l

Common shrimp (Crangon - (nominal, renewal). 48 h LC50> 100 mg/l

crangon)
Green algae (Scenedesm

Green algae (Scenedesmus - (nominal, static). 48 h EC50 = 750 mg/l

subspicatus)

Ecological Toxicity Values for: Ethanolamine

Rainbow trout (Oncorhynchus - (nominal, static). 96 h LC50 = 150 mg/l

mykiss)

Mosquito fish - (nominal, static). 96 h LC50 = 337.5 mg/l Bluegill - (nominal, static). 96 h LC50 = 329.16 mg/l

Pimephales promelas (fathead - (measured, flow-through) 96 h LC50 = 2,070 mg/l

minnow)

Goldfish - (measured, static) 96 h LC50 = 170 mg/l
Daphnia magna (Water flea) - (nominal, static). 24 h LC50= 140 mg/l
Crangon crangon (shrimp) - (nominal, renewal). 48 h LC50> 100 mg/l

Brine shrimp - 48 h LC50= 7,100 mg/l
Daphnia magna (Water flea) - 48 h EC50= 65 mg/l

**Ecological Toxicity Values for: Ethanol** 

Pimephales promelas (fathead - (nominal, static). 96 h LC50 = 14,700 mg/l

minnow)

Rainbow trout (Salmo gairdneri), - (nominal, static). 96 h LC50 = 13,000 mg/l

Brine shrimp - (nominal, static). 48 h LC50= 25.5 mg/l

Daphnia pulex
- (nominal, static). 18 h LC50= 12,100 mg/l
Daphnia magna,
- (nominal, static). 48 h EC50> 10,000 mg/l
Daphnia magna,
- (nominal, static). 48 h LC50= 9,248 mg/l
Ceriodaphnia dubia
- (nominal, static). 48 h LC50= 8,808 mg/l

# **SECTION 13. DISPOSAL CONSIDERATIONS**

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CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it DOES NOT meet the criteria of a

hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.As a nonhazardous liquid waste, it should be disposed of in accordance with local, state

and federal regulations.

# **SECTION 14. TRANSPORT INFORMATION**

DOT

UN number : 1760

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

: (Copper triethanolamine complex)

Class : 8
Packing group : III
Labels : 8
Emergency Response : 154

Guidebook Number

**TDG** 

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S.

(Copper triethanolamine complex)

Class : 8
Packing group : III
Labels : 8

IATA

UN number : 1760

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

(Copper triethanolamine complex)

Class : 8
Packing group : III
Labels : 8
Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

Packing instruction : Y841

(passenger aircraft)

### **IMDG-CODE**

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UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S.

(Copper triethanolamine complex)

Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

## **SECTION 15. REGULATORY INFORMATION**

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.

Signal word : DANGER!

Hazard statements : Harmful if swallowed.

May be fatal if absorbed through skin.

Corrosive. Causes skin burns.

Corrosive. Causes irreversible eye damage.

This pesticide is toxic to fish.

This pesticide is toxic to aquatic invertebrates.

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

### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-Iminodiethanol	111-42-2	100	

#### **SARA 302**

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

#### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

copper carbonate 12069-69-1 5.64 %

## Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Formaldehyde	50-00-0	0.002 %
Sodium hydroxide	1310-73-2	0.0001 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Formaldehyde	50-00-0	0.002 %
Sodium hydroxide	1310-73-2	0.0001 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

copper carbonate	12069-69-1	5.64 %
2,2',2"-Nitrilotriethanol 2-Aminoethanol Ethanol	102-71-6 141-43-5 64-17-5	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	
2,2',2"-Nitrilotriethanol	102-71-6	
2-Aminoethanol	141-43-5	
copper carbonate	12069-69-1	
Ethanol	64-17-5	
	2,2',2"-Nitrilotriethanol 2-Aminoethanol Ethanol  Quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides 2,2',2"-Nitrilotriethanol 2-Aminoethanol copper carbonate	2,2',2"-Nitrilotriethanol 102-71-6 2-Aminoethanol 141-43-5 Ethanol 64-17-5  Quaternary ammonium 68424-85-1 compounds, benzyl-C12-16- alkyldimethyl, chlorides 2,2',2"-Nitrilotriethanol 102-71-6 2-Aminoethanol 141-43-5 copper carbonate 12069-69-1

### **New Jersey Right To Know**

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1
2,2',2"-Nitrilotriethanol	102-71-6
2-Aminoethanol	141-43-5
copper carbonate	12069-69-1
Ethanol	64-17-5

### California Prop 65

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WARNING! This product contains a chemical known to the State of California to cause cancer.

2,2'-Iminodiethanol 111-42-2 Formaldehyde 50-00-0

#### The components of this product are reported in the following inventories:

TSCA : This is an EPA registered pesticide.

: silica, amorphous, precipitated

Carbopol 941

#### **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**

SECTIONS REVISED: 3

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

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