## MATERIAL SAFETY DATA SHEET

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

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

USA: 1-703-527-3887)
1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: GLB CANADA 1458

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Supplier** REVISION DATE: 03/16/2012

GLB SUPERCEDES: 1400 Bluegrass Lakes Parkway.

Alpharetta, GA, 30004 MSDS Number: 000000014973

SYNONYMS: None

CHEMICAL FAMILY: None

Telephone: +17705215999
Telefax: +17705215959
Web: www.poolspacare.com

CHEMICAL PAMILT:

DESCRIPTION / USE
FORMULA:
Water treatment chemical
NOT APPLICABLE/MIXTURE

Manufacturer

Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America

#### 2. HAZARDS IDENTIFICATION

OSHA Hazard
Classification:

Corrosive, Possible skin sensitizer, Oxidizer

Routes of Entry: Eyes Skin Inhalation Ingestion Medical Conditions Aggravated: Asthma, Respiratory disorders

**Human Threshold Response Data** 

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

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#### Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings:	<u>Health</u>	<u>Flammability</u>	Physical / Instability	PPI / Special
				hazard.
HMIS	3	0	0	
NFPA	3	0	0	NFPA Oxidizer
				Class: Meets the
				criteria of an
				NFPA Class 1
				Oxidizer

Immediate (Acute) Health Effects

Inhalation Toxicity: May cause respiratory irritation.

Skin Toxicity: Corrosive to skin

Eye Toxicity: Corrosive. Burns can occur following exposure. Direct contact may

cause impairment of vision, corneal damage and/or blindness. Rinsing

of the eye should take place immediately.

Irritation and/or burns can occur to the entire gastrointestinal tract, Ingestion Toxicity:

> including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration. Indestion may cause severe damage to the gastrointestinal tract with the potential

to cause perforation.

Acute Target Organ Toxicity: Eyes, Skin, Respiratory Tract, Gastrointestinal tract

Prolonged (Chronic) Health Effects

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

reference source including IARC, OSHA, NTP or EPA.

Reproductive and

**Developmental Toxicity:** 

Inhalation: There are no known or reported effects from chronic exposure except for

effects similar to those experienced from acute exposure.

There are no known or reported effects from chronic exposure except for Skin Contact:

effects (if any) similar to those experienced from acute exposure.

Not known or reported to cause reproductive or developmental toxicity.

Ingestion: There are no known or reported effects from chronic ingestion except for

effects similar to those experienced from single exposure.

May cause allergic skin sensitization in some individuals. Sensitization:

**Chronic Target Organ Toxicity:** 

Supplemental Health Hazard

None known No additional health information available.

Information:

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME CAS # % RANGE

POTASSIUM PEROXYMONOSULFATE 10058-23-8

POTASSIUM SULFATE 7778-80-5

POTASSIUM BISULFATE 7646-93-7

Sodium carbonate 497-19-8

Sodium tetraborate pentahydrate 12179-04-3

POTASSIUM PEROXYDISULFATE 7727-21-1

MAGNESIUM CARBONATE 546-93-0

## 4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing

becomes difficult or if respiratory irritation develops. If not breathing, give artificial

respiration. Call for medical assistance.

Skin Contact: IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing

comes in contact with the product, the clothing should be removed immediately

and laundered before re-use. Seek medical attention.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes.

Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless

directed to do so by a physician. Never give anything by mouth to an unconscious

person.

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#### 5. FIRE FIGHTING MEASURES

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

explosive.

Flammable Properties

Flash Point: not applicable Autoignition Temperature: not applicable

Fire / Explosion Hazards: Material will not ignite or burn. Will release oxygen when heated,

intensifying a fire

Extinguishing Media: Water

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.

Upper Flammable / Explosive Limit, % in air: no data available Lower Flammable / Explosive Limit, % in air: no data available

#### 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: Notify all downstream users of possible contamination. Divert water

flow around spill if possible and safe to do so.

Land Release: Sweep up and shovel into suitable containers for disposal. Avoid dust

generation.

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

protective equipment as required. Evacuate personnel to safe areas.

#### 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 dust.

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

incompatible materials. Keep containers tightly closed when not in

use.

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Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is recommended if significant dusting occurs.

Otherwise use general exhaust ventilation.

Protective Equipment for Routine Use of Product

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

possible.

Respirator Type: NIOSH approved full-face air purifying respirator with an N95 filter. Air

purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the

published limit.

Skin Protection: Avoid contact with skin. Impervious gloves A full impervious suit is

recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: Impervious, Neoprene, Butyl rubber

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

Measures: workstation location.

**Exposure Limit Data** 

CHEMICAL NAME Sodium tetraborate pentahydrate	<u>CAS #</u> 12179-04-3	Name of Limit ACGIH	Exposure 2 mg/m3 TWA Inhalable fraction
Sodium tetraborate pentahydrate	12179-04-3	ACGIH	6 mg/m3 STEL Inhalable fraction
POTASSIUM PEROXYDISULFATE	7727-21-1	ACGIH	0.1 mg/m3 TWA 1996 Adoption
MAGNESIUM CARBONATE	546-93-0	OSHA Z1	15 mg/m3 TWA total dust
MAGNESIUM CARBONATE	546-93-0	OSHA Z1	5 mg/m3 TWA respirable fraction

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: granular Form solid

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Color: blue Odor: none

Molecular Weight: None established

Specific Gravity: 1.2

(@ 20 Deg. C)

pH: 7.8

1% solution

**Boiling Point:** 

not applicable

Freezing Point:

no data available

Melting Point:

no data available
Density: no data available
Bulk Density: no data available
Vapor Pressure: no data available
Vapor Density: no data available
Viscosity: no data available

Solubility in Water: 250 g/l

(@ 20 Deg. C)

Partition coefficient n-

no data available

octanol/water:

Evaporation Rate: not applicable

Oxidizing: Product has oxidizing properties.

Volatiles, % by vol.:

VOC Content

HAP Content

no data available
no data available
Not applicable

## 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: High temperatures, Exposure to moist air or water Chemical Incompatibility: Oxidizing agents, Heavy metal salts, Cyanides, Halides

Hazardous Decomposition Products: Oxygen, Heat., Other hazardous decomposition products may be

formed.

Decomposition Temperature: no data available

### 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

POTASSIUM BISULFATE LD50 = 2,340 mg/kg rat

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Sodium carbonate LD50 = 4,090 mg/kg rat

Sodium tetraborate LD50 3,200 - 3,400 mg/kg = Rat

pentahydrate

Component Animal Toxicology

Dermal LD50 value:

Sodium carbonate LD50 Believed to be > 2,000 mg/kg rabbit

Sodium tetraborate LD50 > 2,000 mg/kg Rabbit

pentahydrate

Component Animal Toxicology

Inhalation LC50 value:

Sodium carbonate  $LC50 \ 1 \ h = 4.6 \ MG/L \ rat$ 

Sodium tetraborate Inhalation LC50 4 h > 2 MG/L Rat

pentahydrate

**Product Animal Toxicity** 

<u>Oral LD50 value</u>: Believed to be > 2,000 mg/kg <u>Dermal LD50 value</u>: Believed to be > 2,000 mg/kg

Inhalation LC50 No data.

value:

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

Skin Sensitization: Possible skin sensitizer based on animal tests

Subchronic / Chronic

ronic There are no known or reported effects from chronic exposure.

Toxicity:

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

**Developmental Toxicity:** 

Sodium carbonate This chemical has been tested in laboratory animals

and no evidence of teratogenicity was seen.

Sodium tetraborate pentahydrate Boric acid has been evaluated in several laboratory

animal species and in only one species was found to cause fetotoxicity at maternally toxic doses. Based on this data, this product may have the potential to cause

developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

Sodium carbonate This product was determined to be non-mutagenic in

the Ames assay. It was also shown to be nonclastogenic in the chromosomal aberration test.

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

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source including IARC, OSHA, NTP or EPA.

#### 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

#### Ecological Toxicity Values for: POTASSIUM SULFATE

Lepomis macrochirus (Bluegill -96 hr. EC50 (cell growth inhibition) 96 h LC50 = 3,550 mg/l

sunfish)

Pimephales promelas (fathead 96 h LC50 = 680 mg/l

minnow)

Daphnia magna (Water flea) - 48 h EC50= 720 mg/l

#### Ecological Toxicity Values for: Sodium carbonate

Fathead minnow (Pimephales - (nominal, static). 96 h LC50 < 850 mg/l

promelas),

Bluegill (nominal, static). 96 h LC50 = 320 mg/l Mosquito fish (nominal, static). 96 h LC50 = 740 mg/l

Daphnia magna, (nominal, static). 48 h LC50= 265 mg/l Ceriodaphnia dubia (nominal) 48 h EC50= 199.82 mg/l

 (nominal, static). 96 h EC50 = 242 mg/l Navicula seminulum (diatom)

#### Ecological Toxicity Values for: Sodium tetraborate pentahydrate

Rainbow trout (embryo - larval -24 day LC50 (chronic toxicity) = 88 mg/l

stage)

Daphnia magna, -24 h EC50= 242 mg/l Green algae (Scenedesmus - 96 h EC10 = 24 mg/l

subspicatus)

#### Ecological Toxicity Values for: POTASSIUM PEROXYDISULFATE

Cyprinus carpio (Carp) -48 h LC50 = 1,360 mg/l

Oncorhynchus mykiss (rainbow 48 h LC50 = 234 mg/l

trout)

Poecilia reticulata (guppy) 48 h LC50 = 845 mg/l

Daphnia magna (Water flea) - 48 h LC50= 92 mg/l

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### 13. DISPOSAL CONSIDERATIONS

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 solid waste it should be disposed of in accordance with local, state

and federal regulations.

#### 14. TRANSPORT INFORMATION

Land (US DOT): UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(MONOPERSULFATE COMPOUND) 8 II

Water (IMDG): UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.,

(MONOPERSULFATE COMPOUND) 8 II

Air (IATA): UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.,

(MONOPERSULFATE COMPOUND) 8 II

Emergency Response Guide Number: ERG # 154

Transportation Notes: Under specific circumstances, this product can ship under two

transport exceptions, Limited Quantity or Consumer

Commodity. See Bill of Lading for proper shipping description.

EMS: F-A, S-B

#### 15. REGULATORY INFORMATION

**UNITED STATES:** 

Toxic Substances Control Act (TSCA): This chemical is for export only and thus, is not subject to

TSCA regulations.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals

Not registered in the US under FIFRA.

(40 CFR 180):

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#### Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard

Physical None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

**Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:** 

ZUS\_SAR302 TPQ (threshold planning None established

quantity)

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS\_CERCLA Reportable quantity None established ZUS\_SAR302 Reportable quantity None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS\_SAR313 De minimis concentration None established

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112: ZUS\_CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS#	COMPONENT NAME
7727-21-1	POTASSIUM PEROXYDISULFATE

ZUSPA\_RTK

Pennsylvania: Hazardous substance list

1989-08-11

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#### PEROXYDISULFURIC ACID ([(HO)S(O)2]2O2), DIPOTASSIUM SALT

#### New Jersey:

CAS#	COMPONENT NAME
546-93-0	MAGNESIUM CARBONATE
7646-93-7	POTASSIUM BISULFATE
7727-21-1	POTASSIUM PEROXYDISULFATE

ZUSNJ RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

MAGNESITE CARBONIC ACID, MAGNESIUM SALT (1:1)

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

POTASSIUM HYDROGEN SULFATE POTASSIUM BISULFATE SULFURIC ACID,

MONOPOTASSIUM SALT

Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

POTASSIUM PERSULFATE PEROXYDISULFURIC ACID, ([(HO)S(O)2]2O2),

**DIPOTASSIUM SALT** 

#### Massachusetts:

CAS#	COMPONENT NAME
546-93-0	MAGNESIUM CARBONATE
7727-21-1	POTASSIUM PEROXYDISULFATE
12179-04-3	Sodium tetraborate pentahydrate

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1991-07-01

MAGNESITE DUST

massachusetts hazardous substance

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

POTASSIUM PERSULFATE

Massachusetts Right to Know List of Chemicals and Hazard Classifications

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1991-07-01 BORATES, TETRA, SODIUM SALTS massachusetts hazardous substance

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE

California Proposition 65:

CAS # COMPONENT NAME

ZUSCA\_P65 None established

#### WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS) 2007-08-24 Threshold limits: 1 Weight percent 1513

Potassium hydrogen sulfate

Ingredient Disclosure List (WHMIS) 1988-01-20 Threshold limits: 0.1 Weight percent

1252

PERSULFATE COMPOUNDS

Ingredient Disclosure List (WHMIS) 2007-08-24

Threshold limits: 1 Weight percent

392

Sodium carbonate

## **16. OTHER INFORMATION**

MSDS REVISION STATUS:

Major References: Available upon request.

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# MATERIAL SAFETY DATA SHEET

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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