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 USA: 1-703-527-3887)

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

USA: 1-423-780-2347)

PRODUCT NAME: GLB SHOXIDIZER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

 Supplier
 REVISION DATE:
 02/16/2016

 GLB
 SUPERCEDES:
 05/26/2015

SUPERCEDES: 05/26/2015
1400 Bluegrass Lakes Parkway ,

Alpharetta, GA, 30004
USA

MSDS Number: 000000024380
SYNONYMS: none

Telephone: +17705215999 CHEMICAL FAMILY: Not Applicable/Mixture

Telefax: +17705215959

DESCRIPTION / USE Swimming pool water treatment

Web: www.poolspacare.com

FORMULA: None established

Manufacturer

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing solids : Category 1

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

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Specific target organ toxicity -

single exposure

Category 3 (Respiratory system)

GHS label elements

Hazard pictograms









Signal word : Danger

Hazard statements : H271 May cause fire or explosion; strong oxidizer.

H302 + H332 Harmful if swallowed or if inhaled

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the

workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P283 Wear fire/ flame resistant/ retardant clothing.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

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/doctor.

P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or

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alcohol-resistant foam to extinguish.

P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

CAS OR CHEMICAL NAME POTASSIUM PEROXYMONOSULFATE	<u>CAS #</u> 10058-23-8	<u>% RANGE</u> 25 - 35
POTASSIUM SULFATE	7778-80-5	15 - 25
POTASSIUM BISULFATE	7646-93-7	12 - 18
SODIUM DICHLORO-S-TRIAZINETRIONE	2893-78-9	10 - 20
Sodium carbonate	497-19-8	8 - 14
POTASSIUM PEROXYDISULFATE	7727-21-1	1 - 3
MAGNESIUM CARBONATE	546-93-0	0 - 2

SECTION 4. FIRST AID MEASURES

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.

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IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 Eye Contact:

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. 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

Ingestion:

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

intensifying a fire

Extinguishing Media: Water only.

Fire Fighting Instructions: 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. Use water to cool

containers.

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

thermal decomposition or combustion.

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:

Water Release:

Land Release:

Hazardous concentrations in air may be found in local spill area and immediately downwind. Contain all solids for treatment or disposal.

Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all solids for

treatment or disposal. Continue to handle as described in land spill. Sweep up and place in suitable clean, dry containers for reclamation

or later disposal. Avoid dust generation. Do not place spill materials back in their original containers. After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and

ditches which lead to waterways.

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REVISION DATE: 02/16/2016 Page 4 of 12 Additional Spill Information: Stop source of spill as soon as possible and notify appropriate

personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all nonessential personnel. Dispose of spill residues per guidelines under

Section 13, Disposal Consideration.

SECTION 7. HANDLING AND STORAGE

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

Upon contact with skin or eyes, wash off with water. Avoid inhalation

of dust and fumes.

Storage: Store in a cool dry ventilated location, away from sources of ignition

or other incompatible conditions and chemicals. Keep container(s)

closed. Protect from moisture.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

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

possible.

Respirator Type: A NIOSH approved full-face air purifying respirator equipped with

combination chlorine/P100 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.

Skin Protection: Wear impervious gloves, boots and apron to avoid skin contact. A full

impervious suit is recommended if exposure is possible to a large portion of

the body.

Eye Protection: Use chemical goggles.

Protective Clothing Type: Neoprene

General Protective An eye wash and safety shower should be provided in the immediate work

Measures: area

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
POTASSIUM PEROXYDISULFATE (7727-21-1)	TWA	0.1 mg/m3	ACGIH (02 2014)
[as persulfate]			

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid

Form <** Phrase does not exist: LONZA - SX0900048460 **>

Color: white

Odor: <** Phrase does not exist: LONZA - SX0900048460 **>

Molecular Weight: None established Relative density 1.1 - 1.4 (20 °C (20 °C)

())

pH: 7.0 - 7.5

() 10 g/l (as aqueous solution)

Boiling Point: Not applicable

Melting point/freezing

point Density:

no data available

no data available

Bulk Density: ()

vapor Pressure: no data available vapor Density: Not applicable

Viscosity: Not applicable no data available

Solubility in Water: 250 g/l

68 °F (20 °C)

Partition coefficient n-

octanol/water:

Evaporation Rate:

Oxidizing:

Volatiles, % by vol.:

VOC Content

Not applicable

Not applicable None established

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

SECTION 10. STABILITY AND REACTIVITY

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

hazardous polymerization.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated

temperatures., Contact with incompatible substances, Exposure to

moist air or water

Chemical Incompatibility: This product is chemically reactive with many substances,

including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials., Heavy metals such as cobalt, nickel, copper, or manganese, Halides, Avoid moisture.

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Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Chlorine containing gases,

Decomposes when heated or dampened, releasing oxygen and

heat

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

POTASSIUM LD50 = 2,340 mg/kg Rat

BISULFATE

Sodium carbonate LD50 = 4,090 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

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

Component Animal Toxicology

Inhalation LC50 value:

Sodium carbonate $LC50 \ 1 \ h = 4.6 \ mg/l \ Rat$

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 1,600 mg/kg Rat

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

Inhalation LC50 LC50 1 h (aerosol dust) Believed to be > 10 mg/l Rat

value:

Skin Irritation: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., The dry material is

irritating to the skin. However when wet, it will produce burns to the skin.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: May cause allergic skin sensitization in some individuals.

Acute Toxicity: Corrosive to the eyes, moderately irritating to the skin and respiratory tract and

moderately to severely irritating to the gastrointestinal tract. The dry material is

irritating to the skin. However when wet, it will produce burns to the skin.

Subchronic / Chronic Not known or reported to cause subchronic or chronic toxicity.

Toxicity:

Sodium carbonate Male rats were exposed to an aerosol of 2% aqueous

solution of this chemical, 4 hr.day, 5 days/week for 3-1/2 months. No effect was observed at a concentration of 10 or 20 mg/cubic meter. At 70 mg/cubic meter weight gain was decreased and the lungs showed thickening of the intra-alveolar walls, hyperemia, and lymphoid

infiltration., Repeated or prolonged skin contact with this

product may cause dermatitis and blistering.

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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.

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

source including IARC, OSHA, NTP or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Moderately toxic to fish and other aquatic organisms.

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 DICHLORO-S-TRIAZINETRIONE

Lepomis macrochirus (Bluegill - 96 h LC50 = 0.43 mg/l

sunfish)

Oncorhynchus mykiss (rainbow

trout)

Pimephales promelas (fathead - 96 h LC50 = 0.70 mg/l

minnow)

Daphnia magna (Water flea) - 48 h EC50Believed to be approximately 0.195 mg/l

96 h LC50 Believed to be approximately 0.45 mg/l

Ecological Toxicity Values for: Sodium carbonate

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

minnow)

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

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

Ecological Toxicity Values for: POTASSIUM PEROXYDISULFATE

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

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Oncorhynchus mykiss (rainbow - 48 h

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

SECTION 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: IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND

FEDERAL LAWS AND REGULATIONS REGARDING

TREATMENT, STORAGE AND DISPOSAL

Disposal Methods: As a nonhazardous waste, it should be disposed of in accordance

with local, state and federal regulations.

Potential US EPA Waste Codes: Not applicable

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3077

Description of the goods : Environmentally hazardous substances, solid, n.o.s.

: (Sodium dichloro-s-triazine trionedihydrate)

Class : 9
Packing group : III
Labels : 9
Emergency Response : 171

Guidebook Number

TDG

UN number : 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Sodium dichloro-s-triazine trionedihydrate)

Class : 9
Packing group : III
Labels : 9

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IATA

UN number : 3077

Description of the goods : Environmentally hazardous substance, solid, n.o.s.

(Sodium dichloro-s-triazine trionedihydrate)

Class : 9
Packing group : III
Labels : 9MI
Packing instruction (cargo : 956

aircraft)

Packing instruction : 956

(passenger aircraft)

Packing instruction : Y956

(passenger aircraft)

IMDG-CODE

UN number : 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Sodium dichloro-s-triazine trionedihydrate)

Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F

Marine pollutant : yes

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.

Harmful if absorbed through skin. Corrosive. Causes skin burns.

Corrosive. Causes irreversible eye damage.

This pesticide is toxic to fish.

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302

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

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SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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:

adipic acid 124-04-9

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

adipic acid 124-04-9

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

troclosene sodium	2893-78-9
Dipotassium	7727-21-1
peroxodisulphate	
Market and the second	E 40 00 0

Magnesium carbonate 546-93-0

Pennsylvania Right To Know

Potassium	10058-23-8
hydrogenperoxomonosulph	
ate	
Potassium sulfate	7778-80-5
Potassium	7646-93-7
hydrogensulphate	
troclosene sodium	2893-78-9
Sodium carbonate	497-19-8

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Dipotassium 7727-21-1

peroxodisulphate

New Jersey Right To Know

Potassium 10058-23-8

hydrogenperoxomonosulph

ate

Potassium sulfate 7778-80-5 Potassium 7646-93-7

hydrogensulphate

troclosene sodium 2893-78-9 Sodium carbonate 497-19-8 Dipotassium 7727-21-1

peroxodisulphate

Magnesium carbonate 546-93-0

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other

reproductive harm.

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

TSCA : This product is regulated under the Federal Insecticide,

Fungicide and Rodenticide Act. It must be used for purposes

consistent with its labeling.

Inventories

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

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 1

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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