



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

1-949-474-7707

PRODUCT NAME: All Clear, Oxidizing Shock

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Supplier** REVISION DATE: 02/07/2014 Agua Tri<sub>®</sub> SUPERCEDES: 07/30/2012

17872 Mitchell N. Irvine, CA, 92614-6034

Telephone: +19494747707

Web: WWW.ALLCLEAR.COM

Telefax: +19494747024

SDS Number : 000000024509 Potassium peroxymonosulfate

SYNONYMS:

CHEMICAL FAMILY: None

DESCRIPTION / USE Water treatment chemical

FORMULA: None established

### **SECTION 2. HAZARDS IDENTIFICATION**

**OSHA Hazard** Corrosive to eyes, Corrosive to skin, Oxidizer, Respiratory irritant. Classification:

Routes of Entry: Eyes Skin Inhalation Ingestion

**Chemical Interactions:** No known interactions

Medical Conditions Aggravated: Asthma, respiratory and cardiovascular disease, Skin diseases

including eczema and sensitization

Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 1 of 9



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

Hazard Ratings :	<u>Health</u>	<u>Flammability</u>	Physical / Instability	PPI / Special
				<u>hazard.</u>
HMIS	3	0	0	
NFPA	3	0	1	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 to eyes.

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

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

to cause perforation.

Acute Target Organ Toxicity: This product may be severely irritating and/or corrosive to all tissues

contacted and upon inhalation, may cause irritation to mucous

membranes and the upper respiratory 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:

Not known or reported to cause reproductive or developmental toxicity.

Inhalation: There are no known or reported effects from chronic exposure. There are no known or reported effects from chronic exposure. Skin Contact:

May be absorbed through skin, but it is unlikely that harmful effects will Skin Absorption:

occur unless contact is prolonged, repeated, and extensive.

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

effects similar to those experienced from single exposure.

Eye Contact: Prolonged contact may result in permanent damage.

Sensitization: Possible skin sensitizer based on animal tests **Chronic Target Organ Toxicity:** Respiratory Tract, Eyes, Skin, Digestive Tract No additional health information available. Supplemental Health Hazard

Information:

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME CAS# % RANGE

Pentapotassium bis(peroxymonosulphate) 70693-62-8

bis(sulphate)

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 2 of 9





POTASSIUM PEROXYDISULFATE 7727-21-1

Tetra[carbonato(2- 7760-50-1

)]dihydroxypentamagnesium

Active Ingredient in this composition is POTASSIUM PEROXYMONOSULFATE, CAS. No. 10058-23-8,

Concentration: 43-47% (Typical 45%)

# **SECTION 4. FIRST AID MEASURES**

General Advice: Call a physician immediately.

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.

# **SECTION 5. FIREFIGHTING 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 only.

Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal

protective equipment recommended in Section 8. Use water to cool

containers.

Hazardous Combustion Products: Carbon monoxide

Upper Flammable / Explosive Limit,

% in air:

Carbon monoxide, Carbon dioxide

not applicable

Lower Flammable / Explosive Limit,

% in air:

not applicable

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 3 of 9



# **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: 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

creating dust. Do not place spill materials back in their original

containers.

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.

Incompatible Materials for Storage:

Empty Container Warning:

Refer to Section 10, "Incompatible Materials."

Empty containers retain hazardous residue, dispose of accordingly.

# **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., Wear a NIOSH approved N95 respirator.

Skin Protection: Wear impervious gloves 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

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 4 of 9





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

Measures: area.

Active Ingredient in this composition is POTASSIUM PEROXYMONOSULFATE, CAS. No. 10058-23-8, Concentration: 43-47% (Typical 45%)

### Components with workplace control parameters

no data available

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

Physical State: solid

Form solid Color: white Odor: None

Molecular Weight: None established

Relative density 1.1 - 1.4

pH: 1.4

() 10% solution Boiling Point: not applicable

not applicable

Density no data available

Bulk Density: ()

vapor Pressure: not applicable
Vapor Density: no data available
Viscosity: no data available

Solubility in Water: 250 g/l

68 °F (20 °C)

Partition coefficient n- ()

octanol/water: no data available Evaporation Rate: not applicable

Oxidizing: Product has oxidizing properties.

Volatiles, % by vol.:

VOC Content

HAP Content

no data available
no data available
Not applicable

# **SECTION 10. STABILITY AND REACTIVITY**

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures. Contact with incompatible substances

temperatures., Contact with incompatible substances
Chemical Incompatibility: Halides, Heavy metals, Cyanides, Oxidizing agents

Hazardous Decomposition Products: Decomposes when heated or dampened, releasing oxygen and

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 5 of 9



heat, Oxides of sulfur no data available

Decomposition Temperature:

# SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Pentapotassium LD50 500 mg/kg Rat

bis(peroxymonosulphat

e) bis(sulphate)

Component Animal Toxicology

Dermal LD50 value:

Pentapotassium LD50 > 2,000 mg/kg Rat

bis(peroxymonosulphat

e) bis(sulphate)

Component Animal Toxicology

Inhalation LC50 value:

**Product Animal Toxicity** 

<u>Oral LD50 value</u>: LD50 = 2,000 mg/kg rat <u>Dermal LD50 value</u>: LD50 > 11,000 mg/kg rabbit Inhalation LC50 LC50 4 h > 5.0 mg/l rat

value:

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

Skin Sensitization: Possible skin sensitizer based on animal tests

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

irritation to mucous membranes and respiratory tract.

Subchronic / Chronic

Toxicity:

Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Not k

Developmental Toxicity:

Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

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 - Product:** 

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 6 of 9





Oncorhynchus mykiss (rainbow - 96 h LC50 = 53 mg/l

trout)

Daphnia magna (Water flea) - 48 h EC50= 3.5 mg/l

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

# **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: If this product becomes a waste, it will be a nonhazardous waste.

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

accordance with local, state and federal regulations.

Potential US EPA Waste Codes: LONZA-N09.00602550

#### SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3260

Description of the goods : Corrosive solid, acidic, inorganic, n.o.s.

: (Potassium hydrogenperoxomonosulphate)

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

Guidebook Number

TDG

UN number : 3260

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 7 of 9



Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(Potassium hydrogenperoxomonosulphate)

Class : 8
Packing group : II
Labels : 8

IATA

UN number : 3260

Description of the goods : Corrosive solid, acidic, inorganic, n.o.s.

(Potassium hydrogenperoxomonosulphate)

Class : 8
Packing group : II
Labels : 8
Packing instruction (cargo : 863

aircraft)

Packing instruction : 859

(passenger aircraft)

Packing instruction : Y844

(passenger aircraft)

IMDG-CODE

UN number : 3260

Description of the goods : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(Potassium hydrogenperoxomonosulphate)

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

### **SECTION 15. REGULATORY INFORMATION**

**UNITED STATES:** 

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals

(40 CFR 180):

Not registered in the US under FIFRA.

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

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

Health Immediate (Acute) Health Hazard

Physical Fire Hazard

#### Clean Air Act

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 8 of 9



#### SAFETY DATA SHEET

Clean Air Act Toxic ARP Section 112r None established

Clean Air Act Socmi None established

Clean Air Act VOC Section 111 None established

Clean Air Act Haz. Air Pollutants Section 112 None established

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.	

### **SECTION 16. OTHER INFORMATION**

SDS REVISION STATUS:

SECTIONS REVISED: 2, 3, 8, 11

Major References : Available upon request.

THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS 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. AQUA TRI $_{\tiny (I)}$  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 SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT AQUA TRI $_{\tiny (I)}$  SDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .

All Clear® Oxidizing Shock

REVISION DATE: 20-JUL-02/0 Page 9 of 9