

# Material Safety Data Sheet

## POOL TIME® SHOCK TREATMENT

Version: 1.3

Revision Date: 07/15/2011

Print Date: 10/14/2011

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *POOL TIME® SHOCK TREATMENT*

Product Use Description: Recreational Water Product

Registration number: 67262-36

Company: Recreational Water Products, Inc.  
PO Box 1449  
Buford, GA  
30515-1449

Telephone: (800) 859-7946

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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07/15/2011

+011-886-2-2712-5668      MSDSRequest@chemtura.com

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### **Danger**

Form: granules      Colour: white      Odour: Chlorine

Hazard Summary : Corrosive  
Causes serious eye damage.  
Harmful if swallowed.  
May be fatal if inhaled.  
Avoid breathing dust or vapor.  
Irritating to skin.  
May cause burns or external ulcers.  
Irritating to respiratory system.  
Do not get in eyes, on skin, or on clothing.

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

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Inhalation  
Ingestion  
Eye contact

Inhalation : Irritating to respiratory system.  
May be fatal if inhaled.

Skin : Irritating to skin.  
May cause burns or external ulcers.

Eyes : Causes serious eye damage.

Ingestion : Harmful if swallowed.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
Trichloro-s-triazinetrione 87-90-1	53.5 %
Trade secret 031	25 - 30 %
Trade secret 001	4 - 6 %

### 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 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.

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### SECTION 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point : Remarks: not applicable

#### Fire fighting

Suitable extinguishing media : Flood with large volumes of water.

Unsuitable extinguishing media : ABC powder  
Dry powder  
Risk of violent reaction.

Further information : Do not let fire burn.

#### Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Under extreme heat (greater than 400F), this product will evolve noxious chlorine containing gases.

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.  
Do not add water to spilled 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.  
Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

Additional advice : Do not use floor sweeping compounds to clean up spills.  
Do not transport wet or damp material.  
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 : Contains a strong oxidizing agent.  
Avoid breathing dust.  
Avoid breathing vapors.  
Do not mix with other chemicals.  
Never add water to this product.  
Always add product in dry form directly to pool or pool skimmer.

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Use only clean and dry utensils.  
Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.  
Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.  
In case of contamination or decomposition, do not reseal container.  
If possible, isolate container in open air or well ventilated area.  
Flood with large volumes 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.

### Storage

Requirements for storage areas and containers : Store in original container.  
Keep container closed when not in use.  
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

### Engineering measures

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

### Personal protective equipment

Eye protection : 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 : granules

Colour : white

Odour : Chlorine

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### Safety data

Flash point	: Note: not applicable
pH	: ca. 3.7 Note: 1% Solution
Freezing point	: Note: Not Available
Boiling point/boiling range	: Note: not applicable
Vapour pressure	: Note: Not Available
Density	: 0.995 g/cm <sup>3</sup> at 77 °F (25 °C)
Water solubility	: 34 g/l
Relative vapour density	: Note: Not Available

### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Remarks: High temperatures. Poor ventilation. Contamination Moisture/high humidity.
Materials to avoid	: Remarks: Avoid contact with water on concentrated material in the container. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other chemicals.
Hazardous decomposition products	: Note: Chlorine containing gases can be produced.
Thermal decomposition	: 200 °C
Hazardous reactions	: Hazardous polymerisation does not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 1,435 mg/kg Species: rat
Acute inhalation toxicity	: Remarks: Irritating to respiratory system. Harmful by inhalation.
Acute dermal toxicity	: > 2,000 mg/kg

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Species: rabbit

Skin irritation : Remarks: Irritating to skin.  
May cause burns or external ulcers.

Eye irritation : Remarks: Causes serious eye damage.

Sensitisation : Remarks: This product is not expected to be a skin sensitizer.

### 12. ECOLOGICAL INFORMATION

Toxicity to fish

Trichloro-s-triazinetrione : LC50: 0.24 mg/l  
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Trade secret 031 : LC50: 315 mg/l  
Exposure time: 96 h

Species: Fish

Trade secret 001 : LC50: 37 mg/l  
Exposure time: 96 h

Species: Gambusia affinis (Mosquito fish)  
static test

LC50: 33.9 mg/l  
Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)  
flow-through test

Toxicity to daphnia and other aquatic invertebrates.

Trichloro-s-triazinetrione : LC50: 0.21 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Trade secret 001 : LC50: ca. 6.57 mg/l  
Exposure time: 48 h

Toxicity to algae

Trichloro-s-triazinetrione : EC50: 655 mg/l  
Exposure time: 96 h  
Species: Algae

Toxicity to bacteria

Trade secret 031 : 770 mg/l  
Exposure time: 17 h  
Species: Bacteria

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Bioaccumulation  
Trade secret 031 : Bioconcentration factor (BCF): 0.5  
Remarks:  
Bioaccumulation is unlikely.

Trade secret 001 : Remarks:  
Bioaccumulation is unlikely.

### Further information on ecology

Additional ecological information : Toxic to fish.  
Toxic to aquatic organisms.  
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.  
If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State Pesticide Agency.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.  
Contact with incompatible materials could cause a reaction or fire.  
Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.

Contaminated packaging : Do not re-use empty containers.  
Rinse thoroughly before discarding in trash.  
Offer rinsed packaging material to local recycling facilities.

### SECTION 14. TRANSPORT INFORMATION

#### DOT

UN number : 3077  
Description of the goods : Environmentally hazardous substances, solid, n.o.s.  
(Trichloro-s-triazinetrione)  
Class : 9  
Packing group : III  
ERG Code : 171

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### IATA

UN number : 3077  
Description of the goods : Environmentally hazardous substance, solid, n.o.s.  
(Trichloro-s-triazinetrione)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

### IMDG

UN number : 3077  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Trichloro-s-triazinetrione)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
Marine pollutant : yes  
Trichloro-s-triazinetrione  
Environmentally hazardous : yes  
Trichloro-s-triazinetrione

Not recommended for shipment by air  
Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG 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.

**CERCLA Reportable  
Quantity** : 5000 lbs

**SARA 311/312 Hazards** : Acute Health Hazard  
Fire Hazard  
Reactivity Hazard

### EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

**SARA 302 Reportable  
Quantity** :



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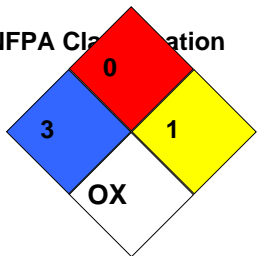
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### SECTION 16. OTHER INFORMATION

#### Further information

**HMIS Classification** : Health hazard: 3  
Flammability: 0  
Reactivity: 1  
PPI: Ask supervisor or safety specialist for handling instructions

**NFPA Classification** : Health hazard: 3  
Fire Hazard: 0  
Reactivity Hazard: 1  
Specific hazards: OX Class 1  
Oxidizer.



#### Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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.