

SAFETY DATA SHEET

Date Prepared : 01/05/2017

SDS No. : Salinity Surge Shock

Salinity Surge Shock

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Salinity Surge Shock**GENERAL USE:** Swimming Pool Shock Treatment**PRODUCT DESCRIPTION:** Swimming Pool Treatment Shock**MANUFACTURER**

Lonza, Inc.
90 Boroline Road
Allendale, NJ 07401

DISTRIBUTOR

Suncoast Chemicals Company
(727) 531-8913
6385 150th Ave. N.
Clearwater, FL 33760
Emergency Phone: (800) 255-3924

EPA REG. NO.: 74849-1-46043

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Target Organ Toxicity (Single exposure), Category 3 (Respiratory system)
Acute Toxicity (Oral), Category 4
Acute Toxicity (Inhalation), Category 4
Skin Irritation, Category 2
Serious Eye Damage, Category 1
Respiratory Sensitization, Category 1
Skin Sensitization, Category 1

Physical:

Oxidizing Solids, Category 1

GHS LABEL

Flame over
circle



Health
hazard



Corrosion



Exclamation
mark

SIGNAL WORD: DANGER**HAZARD STATEMENTS**

H271: May cause fire or explosion; strong oxidizer.
H302: Harmful if swallowed.
H332: Harmful 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 STATEMENT(S)**Prevention:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P220: Keep away from clothing and other combustible materials.
 P221: Take any precaution to avoid mixing with combustibles...
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 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/protective clothing/eye protection/face protection.
 P283: Wear fire resistant or flame retardant clothing.
 P285: In case of inadequate ventilation wear respiratory protection.
 P264: Wash ... thoroughly after handling.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.
 P330: Rinse mouth.
 P302+P352: IF ON SKIN: Wash with plenty of water/...
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312: Call a POISON CENTER/doctor/...if you feel unwell.
 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/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.
 1585RM8G: P370 + P378 In case of fire: Use dry sand, dry chemical or 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 ...

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Potassium Peroxymonosulfate	25 - 35	10058-23-8
Potassium Sulfate	15 - 25	7778-80-5
Potassium Bisulfate	12 - 18	7646-93-7
Sodium Dichloro-s-triazinetrione	10 - 20	2893-78-9
Sodium Carbonate	8 - 14	497-19-8
Potassium Peroxydisulfate	1 - 3	7727-21-1
Magnesium Carbonate	0 - 2	546-93-0

4. FIRST AID MEASURES

EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first

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5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. See a doctor immediately.

SKIN: 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.

INGESTION: Call 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.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Product is not known to be flammable, combustible, pyrophoric or explosive.

EXTINGUISHING MEDIA: Water only.

HAZARDOUS COMBUSTION PRODUCTS: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

FIRE FIGHTING PROCEDURES: Use large quantities of water to cool containers exposed to fire.

FIRE FIGHTING EQUIPMENT: 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.

FIRE EXPLOSION: Material will not ignite or burn. Will release oxygen when heated, intensifying a fire.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: 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.

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.

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

GENERAL PROCEDURES: 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 non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

SPECIAL PROTECTIVE EQUIPMENT: 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.

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 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"

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Sodium Carbonate	OSHA PEL	TWA	[1]	[1]
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Potassium Peroxydisulfate	ACGIH TLV	TWA	[2]	0.1 [2]
	Supplier OEL	TWA	[3]	10 [3]
Magnesium Carbonate	OSHA PEL	TWA		15T, 5
	ACGIH TLV	TWA	NIC	(10)
Footnotes: 1. NL = Not Listed 2. TWA as persulfate. 3. 8 hr. TWA				

ENGINEERING CONTROLS: 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.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical safety goggles.

SKIN: 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.

RESPIRATORY: Wear a NIOSH approved respirator if levels above the exposure limits are possible. 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.

PROTECTIVE CLOTHING: Neoprene apron and impervious clothing.

OTHER USE PRECAUTIONS: An eye wash and safety shower should be provided in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: No data available

COLOR: No data available

pH: 7.0 to 7.5 10 g/l (as aqueous solution)

PERCENT VOLATILE: No data available

VAPOR PRESSURE: No data available

VAPOR DENSITY: No data available

BOILING POINT: Not Applicable

FREEZING POINT: No data available

MELTING POINT: No data available.

SOLUBILITY IN WATER: 250 g/l at 20°C (68°F)

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PARTITION COEFFICIENT: N-OCTANOL/WATER: Not Applicable.

EVAPORATION RATE: Not Applicable

DENSITY: No data available

VISCOSITY: No data available

MOLECULAR WEIGHT: Not Established

(VOC): This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the US Clean Air Act Section 450.

OXIDIZING PROPERTIES: None established.

COMMENTS:

Relative Density: 1.1 - 1.4 (20 degrees celsius)

10. STABILITY AND REACTIVITY

REACTIVITY: 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, and halides. Avoid moisture.

HAZARDOUS POLYMERIZATION: Product will not undergo hazardous polymerization.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Sparks, open flame, other ignition sources, and elevated temperatures. Contact with incompatible substances, exposure to moist air or water.

POSSIBILITY OF HAZARDOUS REACTIONS: The TLV for Chlorine is 0.5 ppm (1.5 mg/m³) TWA and 1ppm STEL.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, Chlorine containing gases, Decomposes when heated or dampened, releasing oxygen and heat.

INCOMPATIBLE MATERIALS: The TLV for Chlorine is 0.5 ppm (1.5 mg/m³) TWA and 1ppm STEL.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: > 2000 mg/kg - Rabbit

ORAL LD₅₀: 1600 mg/kg - Rat

INHALATION LC₅₀: > 10 mg/l - Rat (1h - aerosol dust)

Notes: Component Animal Toxicity

Oral LD50 value:

- Potassium Bisulfate LD 50 = 2,340 mg/kg (Rat)
- Sodium carbonate LD 50 = 4,090 mg/kg (Rat)

Dermal LD50 value:

- Sodium carbonate LD50 > 2,000 mg/kg (Rabbit)

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Inhalation LC50 value:

- Sodium carbonate LC 50 1h (aerosol dust) > 10 mg/l (Rat)

NOTES: 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.

RESPIRATORY OR SKIN SENSITISATION: May cause allergic skin sensitization in some individuals.

GERM CELL 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 non-clastogenic in the chromosomal aberration test.

CARCINOGENICITY

NOTES: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as carcinogen.

REPRODUCTIVE TOXICITY: Not known or reported to cause reproductive or developmental toxicity.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Moderately toxic to fish and other aquatic organisms.

COMMENTS:

Ecological Toxicity Values for: POTASSIUM SULFATE

- Lepomis Macrochirus (Bluegill Sunfish) - 96 hr. EC50 (cell growth inhibition) 96h LC50 = 3,550 mg/l
- Pimephales Promelas (Fathead Minnow) - 96h LC50 = 680 mg/l
- Daphnia Magna (Water flea) - 48h EC50 = 720 mg/l

Ecological Toxicity Values for: SODIUM DICHLORO-S-TRIAZINETRIONE

- Lepomis Macrochirus (Bluegill Sunfish) - 96h LC50 = 0.43 mg/l
- Oncorhynchus Mykiss (Rainbow Trout) - 96h LC50 = 0.45 mg/l
- Pimephales Promelas (Fathead Minnow) - 96h LC50 = 0.70 mg/l
- Daphnia Magna (Water flea) - 48h EC50 = 0.195 mg/l

Ecological Toxicity Values for: SODIUM CARBONATE

- Pimephales Promelas (Fathead Minnow) - (nominal, static). 96h LC50 < 850 mg/l
- Bluegill - (nominal, static). 96h LC50 = 320 mg/l
- Mosquito Fish - (nominal, static). 96h LC50 = 740 mg/l
- Daphnia Magna - (nominal, static). 48h LC50 = 265 mg/l
- Ceriodaphnia Dubia - (nominal) 48h EC 50 = 199.82 mg/l
- Navicula Seminulum (diatom) - (nominal, static). 96h EC50 = 242 mg/l

Ecological Toxicity Values for: POTASSIUM PEROXYDISULFATE

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- Cyprinus Carpio (Carp) - 48h LC50 = 1,360 mg/l
- Oncorhynchus Mykiss (Rainbow Trout) - 48h LC50 = 234 mg/l
- Poecilia Reticulata (Guppy) - 48h LC50 = 845 mg/l
- Daphnia Magna (Water flea) - 48h LC50 = 92 mg/l

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: As a nonhazardous waste, it should be disposed of in accordance with local, state and federal regulations.

RCRA/EPA WASTE INFORMATION: In compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Environmentally Hazardous Substances, Solid, N.O.S. (Sodium Dichloro-s-triazinetriene Dihydrate)

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: 3077

PACKING GROUP: III

NAERG: 171

LABEL: 9

MARINE POLLUTANT #1: Yes

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: This material does not contain any chemical components with know CAS numbers that exceed the threshold (DeMinimus) reporting levels established by Sara Title II, Section 313.

302/304 EMERGENCY PLANNING

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

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

REGULATIONS

STATE REGULATIONS:

Massachusetts Right to Know

- Troclosene Sodium - 2893-78-9
- Dipotassium - 7727-21-1
- Peroxodisulphate Magnesium Carbonate - 546-93-0

Pennsylvania Right to Know:

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- Potassium Hydrogenperoxomonosulphate - 10058-23-8
- Potassium Sulfate - 7778-80-5
- Potassium Hydrogensulphate - 7646-93-7
- Troclosene Sodium - 2893-78-9
- Sodium Carbonate - 497-19-8
- Dipotassium Peroxodisulphate - 7727-21-1

New Jersey Right to Know:

- Potassium Hydrogenperoxomonosulphate - 10058-23-8
- Potassium Sulfate - 7778-80-5
- Potassium Hydrogensulphate - 7646-93-7
- Troclosene Sodium - 2893-78-9
- Sodium Carbonate - 497-19-8
- Dipotassium Peroxodisulphate - 7727-21-1
- Magnesium Carbonate - 546-93-0

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

CLEAN WATER ACT: The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A: Adipic Acid 124-04-9 0.005%

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3: Adipic Acid 124-04-9 0.005%

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

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Below you will find the hazard information that is required on the EPA pesticide label.

GENERAL COMMENTS:

HAZARD INFO FOUND ON THIS PRODUCT'S EPA LABEL, EPS REG. NO. 74849-1-**:**

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.

COMMENTS

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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)

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 SOCM I Intermediate or Final VOC's (40 CFR 60.489)

16. OTHER INFORMATION

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