



DuPont™ Pool Care Multifunctional Shock

Version 2.0

Revision Date 10/20/2009

Ref. 130000036995

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Pool Care Multifunctional Shock
 MSDS Number : 130000036995
 Manufacturer : Bluegrass Water Products
 1400 Bluegrass Lakes Parkway
 Alpharetta, GA 30004

Product Information : (877) 298-4170
 Medical Emergency : ACEAN 1-800-654-6911

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin : Causes skin irritation. May cause: Burns, Ulceration.

Eyes : May cause: Severe irritation, Burns, Ulceration, May cause permanent eye injury if not promptly treated..

Inhalation : May cause irritation of respiratory tract. Other effects may include: Nose bleeding, Cough, Difficulty in breathing, Shortness of breath.

Ingestion : May cause: inflammation of the stomach (gastritis), Other effects may include: Necrosis, Internal bleeding.

Aggravated Medical Condition : Skin disorders Gastrointestinal tract

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Potassium monopersulfate compound	70693-62-8	
Sodium dichloro-S-triazinetrione	2893-78-9	15 %
Sodium carbonate	497-19-8	

SECTION 4. FIRST AID MEASURES

Skin contact : Immediately flush skin with large amounts of water. Wash contaminated clothing before reuse. Consult a physician.

Eye contact : Rinse immediately with plenty of water and seek medical advice.

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- Inhalation : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician.
- Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

SECTION 5. FIRE-FIGHTING MEASURES

- Flammable Properties
Thermal decomposition : Decomposes on heating.
- Fire and Explosion Hazard : The product itself does not burn. Heating will release oxygen, chlorine, and increase the intensity of the fire.
- Suitable extinguishing media : Water
- Unsuitable extinguishing media : Do not use carbon dioxide or other gas-filled fire extinguishers.
- Firefighting Instructions : Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Flood with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Wear self-contained breathing apparatus and protective suit.
- Spill Cleanup : Shovel or sweep up. Flush with plenty of water.
- Accidental Release Measures : All flushing and clean-up residuals should be collected for proper disposal to prevent soil and surface, ground and sewer water contamination. Prevent material from entering sewers, waterways, or low areas.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Avoid inhalation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Wash hands before eating, drinking, or smoking.
- Storage : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from: Combustible material Oxidizing agents Keep away from oxidising agents and strongly acid or alkaline materials. Do not store together with acids and ammonium salts.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Use only with adequate ventilation.
- Personal protective equipment
- Respiratory protection : Wear NIOSH approved respiratory protection as appropriate.
- Hand protection : Material: Impervious gloves
- Eye protection : Wear safety glasses or coverall chemical splash goggles. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
- Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines

Exposure Limit Values

Potassium monopersulfate compound

AEL *	(DUPONT)	1 mg/m3	8 & 12 hr. TWA	Total dust.
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Sodium carbonate

AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Total dust.
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AEL *	(DUPONT)	2.5 mg/m3	8 & 12 hr. TWA	Respirable dust.
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* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : granular
- Color : white
- Odor : Chlorine
- pH : 7 - 7.5
(1% solution in water)
- % Volatile : < 1 %
- Specific Gravity : 1.1 - 1.4
- Water solubility : at 20 °C (68 °F) 25 g 100 cc water

SECTION 10. STABILITY AND REACTIVITY

- Stability : Stable under recommended storage conditions.
- Conditions to avoid : Exposure to moisture. Avoid extreme heat.
- Incompatibility : oxidizers Halides halogens Heavy metal salts
- Hazardous decomposition : Decomposition can cause large release of heat., Oxygen, Carbon dioxide



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products (CO₂), Chlorine

Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

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Dermal LD50 : > 5,000 mg/kg , rat

Oral LD50 : 1,750 mg/kg female, rat

Skin irritation : Species: rabbit, Severe skin irritation

Sensitisation : Species: mouse, Causes sensitization.

Potassium monopersulfate compound

Inhalation 4 h LC50 : > 5 mg/l, rat

Eye irritation : Corrosive

Repeated dose toxicity : Inhalation
Eyes, corneal damage, ReversibleOral
Stomach, Pathologic changes

Mutagenicity : Did not cause genetic damage in cultured bacterial cells., Tests on mammalian cell cultures showed mutagenic effects., Evidence suggests this substance does not cause genetic damage in animals.

Teratogenicity : Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity.

Sodium dichloro-S-triazinetrione

Inhalation 4 h LC50 : 0.036 - 0.799 mg/l, rat

Eye irritation : Species: rabbit
irritant

Repeated dose toxicity : Oral - drinking water, rat

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

Did not cause genetic damage in cultured mammalian cells., Did not cause genetic damage in animals., Information given is based on data obtained from similar product.

Reproductive toxicity : Evidence suggests the substance is not a reproductive toxin in


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animals.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

Sodium carbonate
Inhalation 4 h LC50 : 0.4 mg/l, guinea pig

Eye irritation : Species: rabbit
irritant

Repeated dose toxicity : Inhalation
lung effects

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Teratogenicity : Animal testing showed no developmental toxicity.

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
Potassium monopersulfate compound

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 53 mg/l

72 h ErC50 : Algae > 1 mg/l

48 h EC50 : Daphnia 3.5 mg/l

Sodium dichloro-S-triazinetriene

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 0.43 mg/l

48 h EC50 : Daphnia magna (Water flea) 0.11 - 0.28 mg/l

Sodium carbonate

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 300 mg/l

96 h LC50 : Gambusia affinis (Mosquito fish) 1,200 mg/l

Additional ecological information : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.



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SECTION 14. TRANSPORT INFORMATION

Not Regulated as a hazardous material by DOT, IMO, or IATA.

SECTION 15. REGULATORY INFORMATION

- TSCA Status : Listed.
- SARA 313 Regulated Chemical(s) : 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.
- Title III hazard classification : Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressure: No
- EPA Reg. No. : 71654-9
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
- California Prop. 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
- PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Troclosene sodium
- NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Troclosene sodium

SECTION 16. OTHER INFORMATION

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|----------------------------|---|---------------------|
| | | HMIS |
| Health | : | 3 |
| Flammability | : | 0 |
| Reactivity/Physical hazard | : | 2 |
| PPE | : | Personal Protection |



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rating to be supplied
by user depending
on use conditions.

MSDS : 10/20/2009
preparation
date

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Contact person : MSDS Coordinator, DuPont Chemical Solutions Enterprise, Wilmington, DE
19898, (800) 441-7515

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