SAFETY DATA SHEET

1. Product and Company Identification

Product name	**Pristiva Premium Shock**
CAS #	Mixture
Product use	Pool Water Treatment
Manufacturer	Backyard Brands, Inc. 401 S. Enterprise Blvd., Lebanon IN 46052 USA Phone 1-866-875-0012 Poison Control Centre 877-800-5553
CHEMTREC	800-424-9300
CANUTEC	613-996-6666

2. Hazards Identification

Emergency overview	DANGER OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. CAUSES RESPIRATORY TRACT IRRITATION. Contains a potential reproductive toxin.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes	Causes irritation.
Skin	Causes irritation.
Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Target organs	Eyes. Skin. Respiratory system.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin.
OSHA regulatory status	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Dichloroisocyanuric acid, sodium salt	2893-78-9	60 - 100
Boric Acid	10043-35-3	5 - 10
Citric acid	77-92-9	3 - 7
Aluminum sulfate hydrate	16828-12-9	3 - 7

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.
Skin contact	Brush away excess of dry material. Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria. Containers may explode when heated.

Extinguishing media

- **Suitable extinguishing media** Treat for surrounding material. Water spray, fog (flooding amounts).
- **Unsuitable extinguishing media** DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents). An explosive compound can be formed.

Protection of firefighters

- **Specific hazards arising from the chemical** Container may explode in heat of fire. This substance is an oxidizing agent and can supply oxygen to stimulate or accelerate the combustion of organic or other combustible substances.
- **Protective equipment and precautions for firefighters** Firefighters should wear full protective clothing including self-contained breathing apparatus.

Hazardous combustion products May include and are not limited to: Chlorine. Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid). Oxides of sulfur. Oxides of carbon. Oxides of nitrogen.

Explosion data

- **Sensitivity to mechanical impact** Not available.
- **Sensitivity to static discharge** Not available.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions Do not discharge into lakes, streams, ponds or public waters.

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material.
Avoid contact with eyes and skin.
Avoid breathing dust.
Keep from contact with clothing and other combustible materials.
Wash thoroughly after handling.

Storage
Keep away from heat, open flames or other sources of ignition.
Store in a cool, dry, well-ventilated place away from incompatible materials.
Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Boric Acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	TWA	1 mg/m3	Respirable fraction.

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye / face protection	Safety glasses or goggles.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Dry flowable granules.
Color	White
Form	Solid
Odor	Chlorine
Odor threshold	Not available.
Physical state	Solid.
pH	4.6
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation rate	Not available
Flash point	Not available.
Auto-ignition temperature	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Not available.
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product reacts with acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable, however, may decompose if heated.
Conditions to avoid	Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Chlorine. Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid). Sulfur oxide. Oxides of carbon. Oxides of nitrogen.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Boric Acid (CAS 10043-35-3)		
Acute		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Chicken	2950 mg/kg
	Dog	2000 mg/kg
	Mouse	3450 mg/kg
	Rat	2660 mg/kg
Citric acid (CAS 77-92-9)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Mouse	5040 mg/kg
	Rat	3000 mg/kg
Dichloroisocyanuric acid, sodium salt (CAS 2893-78-9)		
Acute		
Dermal		
LD50	Rabbit	6000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	700 mg/kg
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Mouse	> 730 mg/kg
	Rat	1930 mg/kg

Effects of acute exposure

Eye contact	Causes irritation.
Skin contact	Causes irritation.
Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.

ACGIH Carcinogens

Boric Acid (CAS 10043-35-3)	A4 Not classifiable as a human carcinogen.
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	A4 Not classifiable as a human carcinogen.

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects Contains a potential reproductive toxin.

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Products Not available.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		**Species**	**Test Results**
Boric Acid (CAS 10043-35-3)			
Crustacea	EC50	Daphnia	134 mg/L, 48 Hours
Aquatic			
Fish	LC50	Razorback sucker (Xyrauchen texanus)	> 100 mg/l, 96 hours
Citric acid (CAS 77-92-9)			
Acute			
Crustacea	EC50	Daphnia magna	120 mg/l, 72 hr
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	1516 mg/l, 96 hr
Dichloroisocyanuric acid, sodium salt (CAS 2893-78-9)			
Crustacea	EC50	Daphnia	0 mg/L, 48 Hours
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.29 mg/l, 96 hours
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)			
Aquatic			
Crustacea	EC50	Amphipod (Crangonyx pseudogracilis)	11.8 - 14 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	3.4 - 5.6 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation / Accumulation Not available

Mobility in environmental media Not available.

Environmental effects Not available.

Aquatic toxicity Not available.

Partition coefficient Not available.

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1479

Proper shipping name	Oxidizing solid, n.o.s. (Dichloroisocyanuric acid, sodium salt)
Hazard class	5.1
Packing group	II
Special provisions	62, IB8, IP2, IP4, T3, TP33
Packaging exceptions	152 - Limited quantity 1 kg
Packaging non bulk	212
Packaging bulk	240

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1479
Proper shipping name	OXIDIZING SOLID, N.O.S. (Dichloroisocyanuric acid, sodium salt)
Hazard class	5.1
Packing group	II
Special provisions	16
Packaging exceptions	Limited quantity 1kg

DOT

TDG

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada Priority Substances List (Second List): Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

Canada WHMIS Ingredient Disclosure: Threshold limits

Boric Acid (CAS 10043-35-3)	1 %
Citric acid (CAS 77-92-9)	1 %
Dichloroisocyanuric acid, sodium salt (CAS 2893-78-9)	1 %
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	1 %

WHMIS status	Controlled
WHMIS classification	Class C - Oxidizing Material, Class D - Division 2A, 2B

WHMIS labeling

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US - Louisiana Spill Reporting: Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US - Minnesota Haz Subs: Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US - New Jersey RTK - Substances: Listed substance

Boric Acid (CAS 10043-35-3)	Listed.
Dichloroisocyanuric acid, sodium salt (CAS 2893-78-9)	Listed.
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US - Texas Effects Screening Levels: Listed substance

Boric Acid (CAS 10043-35-3)	Listed.
Citric acid (CAS 77-92-9)	Listed.
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US. Massachusetts RTK - Substance List

Dichloroisocyanuric acid, sodium salt (CAS 2893-78-9)	Listed.
Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

US. Pennsylvania RTK - Hazardous Substances

Dichloroisocyanuric acid, sodium salt (CAS 2893-78-9)	Listed.

US. Rhode Island RTK

Sulfuric Acid, Aluminum Salt (3:2), Tetradecahydrate (CAS 10043-01-3)	Listed.

Inventory status

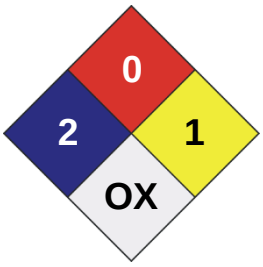
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		1
PERSONAL PROTECTION		X



Disclaimer

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