

# SAFETY DATA SHEET

## 4-S POWDERED CHLORINE BLEACH

### SECTION 1: PRODUCT & COMPANY IDENTIFICATION

**DATE:** 01/15/2015 / **Supersedes Revision:** N/A

**Manufacturer:**

PDQ Manufacturing, Inc.  
201 Victory Circle  
Ellijay, GA USA 30540  
Phone: (706) 636-1848  
Website: www.pdqonline.com

**Distributor:**

4 STATE MAINTENANCE SUPPLY  
P.O. BOX 591  
COFFEYVILLE, KS 67337  
620/251-7033

**EMERGENCY CONTACT:** Chemtrec, Reference CCN203605  
Phone: (800) 424-9300 (collect calls accepted) / International: (703) 527-3887

**Product Name:** 4-S POWDERED CHLORINE BLEACH

**ID Code:** 4760

**Product Category:** Alkaline Detergent

### SECTION 2: HAZARD(S) IDENTIFICATION

**Serious Eye Damage/Eye Irritation, Category 2A**

**Acute Toxicity: Oral, Category 4**

**Specific Target Organ Toxicity (single exposure), Category 3**

**Aquatic Toxicity (Acute), Category 1**

**Aquatic Toxicity (Chronic), Category 1**



**GHS Signal Word:** DANGER

**GHS Hazard Phrases:**

H319 - Causes serious eye irritation.  
H302 - Harmful if swallowed.  
H335 - May cause respiratory irritation.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:**

P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/eye protection.  
P270 - Do not eat, drink or smoke when using this product.  
P261 - Avoid breathing dust.  
P273 - Avoid release to the environment.

**GHS Response Phrases:**

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P330 - Rinse mouth.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P391 - Corrosive to skin - repeated or prolonged exposure may result in dermatitis or skin sensitization.

**GHS Storage and Disposal Phrases:**

P405 - Store locked up.  
P501 - Unused product is not a RCRA Hazardous waste. However, contaminated product and wastes may be RCRA hazardous. Users are advised to determine the appropriate disposal method based on local, state and federal regulations and comply with those regulations.  
P403+233 - Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.

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### Hazard Rating System:

#### HMIS

Health: 1

Flammability: 0

Physical: 1

PPE: B

**Potential Health Effects (Acute and Chronic):** Adverse reproductive effects have been reported in animals. Chronic: Prolonged or repeated contact with concentrated solutions causes tissue damage.

**Inhalation:** Harmful if inhaled. May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation. Inhalation of the dust of sodium dichloroisocyanurate dehydrate may induce bronchospasm. Liberation of chlorine gas in the lungs may cause potentially fatal delayed onset noncardiogenic pulmonary edema.

**Skin Contact:** Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

**Eye Contact:** Causes eye irritation. Lachrymator (substance which increases the flow of tears). Contact with eyes may cause severe irritation, and possible eye burns.

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. Ingestion of sodium tripolyphosphate can cause violent purging (evacuation of the bowels). (Merck Index)

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7757-82-6	Sodium sulfate	30.0 -40.0 %
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	<12.0 %

### SECTION 4: FIRST-AID MEASURES

#### Emergency and First Aid Procedures:

**In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

**In Case of Skin Contact:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of contact, flush skin with plenty of water. Get medical aid if irritation develops and persists. Wash clothing before reuse. Get medical aid immediately. In case of contact, immediately wipe away excess material with a dry cloth while removing contaminated clothing and shoes. Under safety shower, wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Discard or decontaminate clothing and shoes.

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

**In Case of Ingestion:** Get medical aid. Never give anything by mouth to an unconscious person. Get medical aid immediately. If victim is fully conscious, give a cupful of water.

**Note to Physician:** None known.

### SECTION 5: FIRE-FIGHTING MEASURES

**Flash Point:** NP Method Used: Estimate

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:** NA

**Suitable Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Water is a suitable extinguishing media. Do not use dry chemical extinguisher containing ammonia compounds.

**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Oxidizer. Greatly increases the burning rate of combustible materials. Aqueous solutions at 10% or greater of sodium metasilicate are corrosive to skin and to aluminum.

**Flammable Properties and Hazards:**

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid runoff into storm sewers and ditches which lead to waterways.

### SECTION 7: HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Minimize dust generation and accumulation. Do not ingest or inhale. Use only in a chemical fume hood. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Keep from contact with clothing and other combustible materials.

**Precautions To Be Taken in Storing:** Store in a cool, dry place. Store in a tightly closed container. Keep away from acids. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from flammable liquids.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7757-82-6	Sodium sulfate			
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H) -trione, 1,3-dichloro-, sodium Salt {Dichloroisocyanuric acid sodium salt dihydrate}			

**Respiratory Equipment (Specify Type):** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood. Use adequate ventilation to keep airborne concentrations low.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ ] Liquid [X] Solid  
**Appearance and Odor:** White granular solid. chlorine-like.

**Melting Point:** NA

**Boiling Point:** NA

**Autoignition Pt:** NA

**Flash Pt:** NP

**Explosive Limits:** LEL: UEL:

**Specific Gravity (Water = 1):**

**Density:** 71 - 79 LB/CF

**Vapor Pressure (vs. Air or mm Hg):**

**Vapor Density (vs. Air = 1):**

**Evaporation Rate:**

**Solubility in Water:** 100%

**pH:** > 7

**Percent Volatile:** < 1.0 % by weight.

**VOC / Volume:** 0.0000 G/L

### SECTION 10: STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Incompatible materials, dust generation, Excess heat, Avoid contact with acids, reducing agents, oxidizers, nitrogen oxides, amines, ammonia or other nitrogen containing compounds.

**Incompatibility – Materials To Avoid:** Acids, Strong acids. Metals. fluorine, Hydrogen peroxide, phosphorus pentoxide, 6-trinitrotoluene. Incompatible with alkalis, sol carbonates, gold and silver salts, lead acetate, lime water, potassium iodide, potassium and sodium tartrate, sodium borate, tannin, vegetable astringent infusions and decoctions. Aluminum, magnesium, Strong reducing agents, organic matter.

**Hazardous Decomposition Or Byproducts:** Carbon monoxide, Carbon dioxide, oxides of sulfur, sodium oxide. Hydrogen chloride, chlorine, Nitrogen oxides, Toxic fumes of sodium oxide.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid -Hazardous Reactions:**

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### SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicological Information:** Epidemiology: No information found. Teratogenicity: Teratogenic effects have occurred in experimental animals. Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: Not regulated under U.S. Department of Transportation regulations (29 CFR) Teratogenicity: No information available.

**Carcinogenicity/Other Information:** CAS# 497-19-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7757-82-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7758-29-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 6834-92-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 51580-86-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 2893-78-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7757-82-6	Sodium sulfate	n.a.	n.a.	n.a.	n.a.
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	n.a.	n.a.	n.a.	n.a.

### SECTION 12: ECOLOGICAL INFORMATION

**General Ecological Information:** Environmental: Not regulated under U.S. Department of Transportation regulations (29 CFR) Physical: No information available. Sodium sulfate may persist indefinitely in the environment, but is not likely to show bioaccumulation or food chain contamination effects. If diluted with water, this chemical released directly or indirectly into the environment is not expected to have a significant impact. Other: When too many nutrients such as phosphorus are in the water, algae grows maniacally. Algae blooms are followed by a die-off, and as material decays, it consumes oxygen like a forest fire.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

### SECTION 14: TRANSPORTATION INFORMATION (DOT/UN CLASSIFICATION)

**LAND TRANSPORT (US DOT):** Not Regulated.

**DOT Proper Shipping Name:** DOT Hazard Class: UN/NA Number:

### SECTION 15: REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7757-82-6	Sodium sulfate	No	No	No
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7757-82-6	Sodium sulfate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

### SECTION 16: OTHER INFORMATION

**Revision Date:** 01/15/2015

**Preparer Name:** Regulatory Affairs

**Company Policy or Disclaimer:** The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.