



# SAFETY DATA SHEET

ACP-498 – Chlorinated Powdered Bleach

Date: 8-31-15

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Chlorinated Powdered Bleach

### Other Means of Identification

**Product Code** 498

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Bleach, Stain Remover, Laundry Aid

### Details of the Supplier of the Safety Data Sheet

**Manufacturer Address** Arrow Chemical Products, Inc.  
2067 Sainte Anne St.  
Detroit, MI 48216

### Emergency Telephone Number

**Company Phone Number** 313-237-0277  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

Acute Toxicity- Oral	Category 4
Acute toxicity – Inhalation	Category 2
Skin Corrosion / Irritation	Category 1C
Serious Eye Damage / Irritation	Category 2 Sub-Category A
Specific Target Organ Toxicity (Respiratory)	Category 3

### Signal Word

**DANGER**

### Hazard Statements

Causes irreversible eye damage.  
May be fatal if inhaled.  
May cause skin irritation.  
May cause respiratory tract irritation.  
Harmful if swallowed. May cause burns to moist skin if not promptly removed.



**Appearance** White Powder

**Physical State** Solid

**Odor:** Chlorine

**Precautionary Statements - Prevention**

Do not breathe dust, vapor, or spray mist. Do not get in eyes, on skin, or on clothing. Do not eat, drink, or smoke while using this product. Wear safety glasses with side shields, protective clothing, chemical splash goggles, full face shield, and chemical resistant gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse. Use only outdoors in a well-ventilated area. Avoid release to the environment.

**Precautionary Statements – Response**

**IF INHALED:** Move to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (cardio-pulmonary resuscitation and/or automatic external defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY. .

**IF ON SKIN:** Immediately flush contaminated area with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

**IF IN EYES:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. GET MEDICAL ATTENTION IMMEDIATELY.

**IF INGESTED:** Never give anything by mouth to an unconscious or convulsive person. Rinse mouth, do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Give water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY

**Precautionary Statements - Storage**

Store in a well-ventilated place inaccessible to children. Keep material dry and store in a dry area. Keep container tightly closed. Keep separated from incompatible substances. Store in a secure manner.

**Precautionary Statements - Disposal**

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Sodium Dichloroisocyanurate	51580-86-0	<25%

**4. FIRST AID MEASURES**

**First Aid Measures**

- Inhalation** Move to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give artificial respiration. Keep head below knees. Seek medical attention immediately.
- Eye Contact** Object is to flush material out immediately then seek medical attention. Immediately flush eyes with large amounts of water to complete irrigation of all eye and lid tissue. Washing eyes within one minute is essential to achieve maximum effectiveness.
- Ingestion** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink a large quantity of water (if available, give several glasses of milk). If vomiting occurs spontaneously, keep airways clear. Get immediate medical attention.
- Skin Contact** Immediately brush off excess chemical and flush affected area with running water for at least 15 minutes. If irritation occurs, get immediate medical attention.

**Most Important Symptoms and Effects, both Acute and Delayed**

**Symptoms** Contact with skin may cause redness, strong burning sensation, with eventual ulceration. Contact with eyes may cause pain and tears. Impaired vision. Ingestion may cause abdominal pain, nausea, general weakness. Inhalation may cause sore throat, cough, and nausea.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

**Note to Physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Do not attempt to extinguish the fire without a self-contained breathing apparatus. Do not let the fire burn, flood with copious amounts of water.

**Unsuitable Extinguishing Media** Do not use ABC fire extinguishers. Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents since there is the potential of a violent reaction.

**Specific Hazards Arising from the Chemical** None known.

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Wear protective clothing to minimize skin contact. Contaminated clothing should be removed and laundered before reuse. Wear appropriate chemical resistant gloves.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Shovel dry chemical into an empty, clean, dry, moisture free container with a lid. Do NOT add water to spilled material.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Advice on Safe Handling** **NEVER** add water to this product. Always add product to large quantities of water. Do not get in eyes, on skin or clothing. Avoid breathing vapors or dust. Avoid creation of dust. Wear personal protective equipment as described in Section 8. Wash thoroughly after handling.

**Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions** Store and handle in accordance with all current regulations and standards for Oxidizer Class 1. Store in original container and in a DRY area where temperatures do not exceed 52°C (125°F). Do NOT allow water to get in container. Keep container tightly closed and properly labeled. Keep separated from incompatible substances (See Section 10 of the Safety Data Sheet). **KEEP OUT OF REACH OF CHILDREN.**

**Incompatible Materials** Acids, ammonia, bases, floor sweeping compounds, urea, or similar nitrogen containing compound, calcium hypochlorite, reducing agents, organic solvents and compounds.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Dichloroisocyanurate 51580-86-0	N/A	N/A	N/A

**Appropriate Engineering Controls**

**Engineering Controls** Use only in well-ventilated areas. Provide local exhaust ventilation where dust or mist may be generated. Eyewash stations and safety shower should be near work area.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection** Chemical anti-splash safety goggles.

**Skin and Body Protection** Wear appropriate chemical resistant gloves such as butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC). Wear protective clothing to minimize skin contact.

**Respiratory Protection** Use only in well-ventilated areas. A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne dust is generated.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Solid	<b>Odor</b>	Chlorine
<b>Appearance</b>	White granules	<b>Odor Threshold</b>	N/A
<b>Color</b>	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6 – 7 (1% Solution)	
Melting Point/Freezing Point	N/A	
Boiling Point/Boiling Range	N/A	
Flash Point	N/A	
Evaporation Rate	N/A	
Flammability (Solid, Gas)	Not flammable	
Upper Flammability Limits	Not flammable	
Lower Flammability Limit	Not flammable	
Vapor Pressure	N/A	
Vapor Density	N/A	
Specific Gravity	N/A	
Water Solubility	N/A	
Solubility in Other Solvents	N/A	
Partition Coefficient	N/A	
Auto ignition Temperature	N/A	
Decomposition Temperature	N/A	
Kinematic Viscosity	N/A	
Dynamic Viscosity	N/A	
Explosive Properties	N/A	
Oxidizing Properties	N/A	

**10. STABILITY AND REACTIVITY**

**Reactivity** Not reactive under normal temperatures and pressures.

**Chemical Stability** Stable at normal temperatures and pressures.

- Conditions to Avoid** Do not get water inside container. Wet material may generate nitrogen trichlorite, an explosion hazard. Avoid contact with easily oxidizable organic material. Do not mix with other chemicals.
- Incompatible Materials** Acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents, and compounds.
- Hazardous Decomposition Products** Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

**11. TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

- Inhalation** This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. If significant or prolonged exposure occurs, pulmonary edema may develop, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. Physical findings may include moist rales, low blood pressure and high pulse pressure. Severe cases may be fatal.
- Eye Contact** This material is corrosive to the eye. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness. The degree of injury depends on the concentration and duration of contact.
- Skin Contact** This material is irritating to the skin. Direct contact with wet material or by moist skin may cause severe irritation, pain, and possibly burns. Dry material is less irritating than wet material. This material is not a skin sensitizer based on studies with guinea pigs.
- Ingestion** Not a likely route of exposure. Harmful if swallowed. Ingestion may cause immediate pain and severe burns of the mucous membranes. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion. Edema of the epiglottis and shock may occur.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloroisocyanurate 51580-86-0	1823 mg/kg (rat)	>2000 mg (rabbit)	0.27 – 1.17 mg/L (4 hr -rat)

**Information on Physical, Chemical and Toxicological Effects**

- Symptoms** Contact with skin may cause redness, strong burning sensation, with eventual ulceration. Contact with eyes may cause pain and tears. Impaired vision. Ingestion may cause abdominal pain, nausea, general weakness. Inhalation may cause sore throat, cough, and nausea.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

- Carcinogenicity** Not classified as a carcinogen by NTP, IARC or OSHA

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Dichloroisocyanurate 51580-86-0	-	96 hour: 0.22 mg/L LC50 Fish (Rainbow Trout) 96 hour: 0.28 mg/L LC50 Fish (Bluegill Sunfish)	-	48 hour: 0.2 mg/L LC50 Daphnia Magna 96 hour: 1.65 mg/L LC50 Mysid Shrimp

**Persistence and Degradability**

This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride iron and cyanuric acid.

**Bioaccumulation**

This material hydrolyses in water liberating free available chlorine and cyanuric acid. These products are not bioaccumulative.

**Other Ecological Information**

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of appropriate regulatory requirements. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

- Disposal of Wastes**                      Wastes must be disposed of in accordance with federal, state and local environment control regulations.
- Contaminated Packaging**              Wastes must be disposed of in accordance with federal, state and local environment control regulations.

**14. TRANSPORT INFORMATION**

- Note**    Land Transport  
**U.S. DOT 49 CFR 172.101**
- DOT**    Status: Non-Bulk Packaging: Not regulated unless transported by vessel.
- UN/ID No**                                        Not regulated
- IMDG**    Status: Shipment by Vessel: Regulated
- UN/ID No**                                        UN3077
- Proper Shipping Name**                    Environmentally Hazardous Substance, Solid, n.o.s. (Sodium dichloroisocyanurate dihydrate), Marine Pollutant
- Hazard Class**                                 9
- Packing Group**                                III

**15. REGULATORY INFORMATION**

**International Inventories**

- TSCA**    Listed
- DSL**    Listed

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*

**US Federal Regulations**

**SARA 313**

Not regulated.

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Dichloroisocyanurate 51580-86-0	-	X	X

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b> 2	<b>Flammability</b> 0	<b>Reactivity</b> 1	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> 3	<b>Flammability</b> 0	<b>Reactivity</b> 1	<b>Personal Protection</b> B

**Disclaimer**

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.

**End of Safety Data Sheet**