

SAFETY DATA SHEET

Revision Date: April 15, 2014

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SECTION 1: IDENTIFICATION

Product Identifier

Product Name: 4.5% Dry Chlorine Bleach

Recommended Use of the Chemical and Restrictions on Use

Recommended Use: Dry chlorine bleach

Details of the Supplier of the Safety Data Sheet

Supplier Address: Luseaux Laboratories, Inc. Luseaux Laboratories Inc.
4625 N Santa Fe Drive or 16816 Gramercy Place
Kingman, AZ 86401 Gardena, CA 90247

Emergency Telephone Number

Company Phone Number: Arizona Location: 928-692-0192
California Location: 310-324-1555

Emergency Telephone: CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Appearance: White powder

Physical State: Powder

Odor: Chlorine odor

Classification

Skin irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory tract irritation	Category 2



Signal Word

Warning

Hazard Statements

Causes skin irritation.

Causes severe eye irritation

May cause respiratory tract irritation

Precautionary Statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection

Precautionary Statements – Response

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and shoes and wash before reuse.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferable by mouth to mouth, if possible.

Hazards Not Otherwise Classified (HNOC)

Unknown

Other Information

Not Applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium dichloroisocyanurate, dihydrate	51580-86-0	Not identified*
Sodium dodecyl benzene sulfonate	25155-30-0	Not identified*

*The specific percentages are not identified due to "Trade Secret" status. In emergency situation, further information may be obtained by calling the emergency information number listed above. Reference 29 CFR 1910.1200

SECTION 4: FIRST AID MEASURES**First Aid Measures****Inhalation**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth to mouth, if possible.

Eye Contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention.

Ingestion

Drink plenty of water in small gulps. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

Skin Contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation persists, get medical attention.

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

Eyes may have symptoms of redness, itching, irritation, burning and watering from overexposure. Prolonged or repeated skin contact may cause irritation. Irritating to nose and throat.

Indication of any Immediate Medical Attention and Special Treatment Needed**Note to Physicians**

Treat symptomatically. Medical conditions aggravated by exposure: Prolonged contacts may result in irritation to eyes, skin and mucous membranes.

SECTION 5: FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Extinguish with large amounts of water.

Unsuitable Extinguishing Media: Dry chemicals; Carbon dioxide; Halogenated agents

Specific Hazards Arising from the Chemical

In case of fires, hazardous combustion gases are formed: carbon monoxide and carbon dioxide; hydrogen chloride; chlorine; nitrogen; nitrogen trichloride (explosion hazard!); and isocyanic acid

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Other Information

The product is not combustible, however it promotes fire. Containers close to fire should be transferred to a safe place. Cool endangered containers with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

Personal Precautions: Use personal protective equipment as required in sections 7 and 8. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions: This material 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 a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of EPA.

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: Collect mechanically (preferably in dry condition). Send in suitable containers for recovery or disposal. Containers in which split substance has been collected must be adequately labeled.

SECTION 7: HANDLING AND STORAGE**Precautions for Safe Handling**

Advice on Safe Handling: Provide good ventilation of working area (local exhaust ventilation if necessary). Product inherent handling risks must be minimized by taking appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art. Avoid the formation and deposition of dust. Keep away from sources of ignition.

Conditions for Safe Storage, Including and Incompatibilities

Storage Conditions: Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water. Keep under inert gas.

Incompatible Materials: Organic materials; combustible materials; ammonia; ammonium compounds, alkalis; oxidizing agents; reducing agents; and acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium dichloroisocyanurate, dihydrate, 51580-86-0	5 mg/m ³	3 mg/m ³	-

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with occupational exposure limits.

Individual Protections Measures, such as Personal Protective Equipment

Eye wash and safety shower within 25 ft of potential exposure area.

Eye/Face Protection: Dust proof goggles.

Skin and Body Protection: Rubber gloves. Full length work clothing.

Respiratory Protection: Protective apparatus for chlorine and dust if exposure limits exceeded.

General Hygiene Considerations: Handle in accordance with good industrial hygiene/safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information and Basic Physical and Chemical Properties

Physical State: Powder

Odor: Chlorine

Appearance: White Powder

Color: White

Property	Value	Property	Value
pH – 1% solution	6 to 7	Melting/freezing point	Not determined
Boiling point	Not applicable	Flash point	Not determined
Evaporation rate	Not applicable	Flammability	Not determined
Flammability limits/ air	Not determined	Vapor pressure	Not applicable
Vapor density	Not applicable	Specific gravity	Not applicable
Water solubility	Greater than 1%	Solubility in other solvents	Not determined
Partition coefficient	Not determined	Auto-ignition temp	Not determined
Decomposition temp	Not determined	Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined	Explosive properties	Not determined
Oxidizing properties	Not determined	Bulk Density	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Conditions to Avoid

High temperature

Incompatible Materials

Organic materials; combustible materials; ammonia; ammonium compound; alkalis; oxidizing agents; reducing agents; acids.

Hazardous Decomposition Products

Hydrogen chloride; chlorine; nitrogen; nitrogen trichloride, isocyanic acid.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	Avoid inhalation of dust.
Eye Contact	Causes serious eye irritation.
Skin Contact	May cause skin irritation.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium dichloroisocyanurate, dihydrate, 51580-86-0	= 1800 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Sodium dodecyl benzene sulfonate 25155-30-0	= 438 mg/kg (Rat)	-	-
Trade Secret	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	>42 g/m ³ (Rat) 1 h

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Not classifiable as a human carcinogen.

Numerical Measures of Toxicity-Product

Not determined

SECTION 12: ECOLOGICAL INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

SECTION 15: REGULATORY INFORMATION**International Inventories****Legend:**

TCSA – United States Toxic Substances Act Section 8(b) inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

Workplace Hazardous Materials Information System (WHMIS) - Canada

This product had been classified in accordance with hazard criteria of the Controlled Products Regulations.

US Federal Regulations**OSHA**

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA 311/312 Hazard Categories**US State Regulations**

Calif. Prop. 65 Warning: This product may contain a trace amount of one or more of the chemicals on the California list of known carcinogens or substances known to cause birth defects or other reproductive harm. These are not added to the product but occur naturally in the raw materials or processing equipment.

SECTION 16: OTHER INFORMATION

<u>HMIS</u>	Health Hazards	Flammability	Reactivity	Personal Protection
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information is designed only as 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