Safety Data Sheet

DURACHLOR,
DURASHOCK

ALDEN LEEDS
swimming pool & spa chemicals

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Trade Name	: DURACHLOR, DURASHOCK, PRIVATE LABEL
Company	: Alden Leeds, Inc.
Address	: 55 Jacobus Ave., So. Kearny, NJ 07032
Telephone	: (973) 589-3544
Fax	: (973) 589-5093
Web Address	: www.aldenleeds.com
Emergency Phone Number	: (CHEMTREC) 1-800-424-9300
Code	: 3400, 3402-3406, 3412, 3422, 3425, 3450
Recommended Use of the Chemical and Restrictions on Use	: Sanitizers, disinfectants, fungicides, bactericides, algaecides for swimming pools, spas, hot tubs, septic tanks, and sewage treatments, dish-washing detergents and bleach

2. HAZARDS IDENTIFICATION

The consumer variant of this product is labeled in accordance with regulations administered by the consumer product safety commission (CPSC) and the food and drug administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requ irements of the Occupational Safety and Health Administration (OSHA) applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

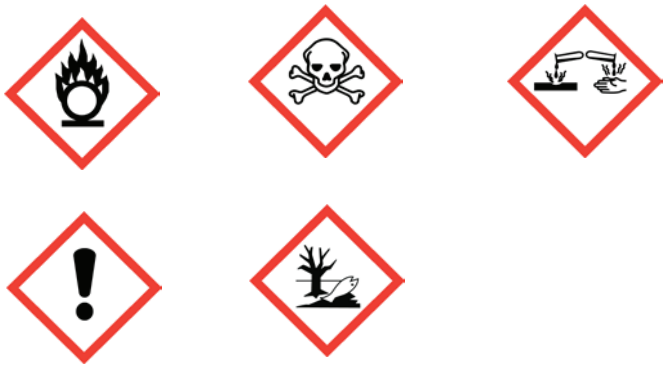
GHS classification

Oxidizing solids	: Category 2
Acute Toxicity (Oral)	: Category 4
Acute Toxicity (Inhalation)	: Category 2
Skin corrosion / irritation	: Category 1C
Serious Eye Damage / Eye Irritation	: Category 1
Specific Target Organ Toxicity Single Exposure	: Category 3
Hazardous to the Aquatic Environment (Acute Hazard)	: Category 1
Hazardous to the Aquatic Environment (Chronic Hazard)	: Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

GHS label element

Symbol



Signal word : Danger

Hazard statement
: May intensify fire ; oxidizer
: Harmful if swallowed
: Fatal if inhaled
: Causes severe skin burns and eye damage
: Causes serious eye damage
: May cause respiratory irritation
: Very toxic to aquatic life with long lasting effects

2. HAZARDS IDENTIFICATION

GHS label elemer

Precautionary Statements

[Prevention]
: Do not breathe dust/fume/gas/mist/vapurs/spray.
: [In case of inadequate ventilation] wear respiratory protection.
: Wash face, hands and any exposed skin thoroughly after han
: Do not eat, drink, or smoke when using this produ
: Wear protective gloves//protective clothing/eye protection/face protection.
: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
: Keep away from clothing and other combustible materials.
: Use only outdoors or in a well-ventilated area.
: Avoid release to the environment.

[Response]
: Rinse mouth.
: Collect spillage.
: In case of fire : Use plenty of water to extinguish.
: IF IN EYES: Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
: IF SWALLOWED: Call a POISON CENTER or doctor/physici you feel unwell.
: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
: Wash contaminated clothing before reuse.
: IF INHALED: Remove person to fresh air and keep comfortat for breathing.
: Immediately call a POISON CENTER/doctor.

[Storage]
: Store in a well-ventilated place. Keep container tightly closed.
: Store locked up.

[Disposal]
: Dispose of contents/container to in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical Identify : Sodium dichloroisocyanurate

Synonym : 1,3-dichloro-, 3,5-triazine-, 2,4,6(1H,3H,5H)-trione sodium salt

Chemical Formula : $C_3Cl_2N_3NaO_3$

CAS Number : 2893-78-9

Concentration : (Sodium dichloroisocyanurate) 99%
(Other) 1%

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.
: Nothing

4. FIRST-AID MEASURES

Inhalation	: Move person to fresh air. If person is not breathing, give artificial respiration, preferable by mouth-to-mouth, if possible. Get medical attention for further treatment advice.
Skin Contact	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Get medical attention for treatment advice.
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 for further treatment advce.
Ingestion	: Get medical advice IMMEDIATELY. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so.
Note to Physician	: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	: Large amounts of water. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.
Specific Hazards Arising from the Chemical	: Chlorine, Nitrogen trichloride, Hydrogen chloride, Nitrogen oxide, and carbon monoxide.

Protective Equipment and Precautions for Fire-fighters
: Wear self-contained breathing appratus in pressure-demand mode and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	: Avoid inhalation and contact with eyes and skin. Use personal protective equipment.
Environmental Precautions	: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, and oceans. Do not flush into surface water or sanitary sewer systems.
Methods and Material for Cantainment and Cleaning Up	: Sweep up spills or leaks with dry broom into suitable container for disposal.

7. HANDLING AND STORAGE

Handling	: Wear proper protective equipments in order to avoid contact with skin or eyes. Remove and wash contaminated clothing before re-use. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Uses only in area provided with appropriate exhaust ventilation.
Storage	: Keep product in tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flame. Do not store with water, oxidizing agents, alcalies, grease, reducing agents and acids. Keep out of reach of children.
Incompatible Products	: Strong bases. Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures : Showers, eyewash stations, and ventilation systems

Exposure Limits

(DUST)
: Limits for Air Contaminants (OSHA)
Particulates not otherwise regulated

Total dust	TWA	10	mg/m³

: Limits for Air Contaminants (OSHA)
Particulates not otherwise regulated

Respirable fraction	TWA	3	mg/m³

(As chlorine gas concentration)
0.5ppm, 1.5mg/m3 (2005year JAPAN)
TLV-TWA(8hours):0.5ppm(ACGIH.1993-1994)
TLV-STEL(15minintes):1ppm(ACGIH 1993-1994)

Personal Protective Equipment

Respirator : A NIOSH/MSHA approved respiratory protection should be worn. Positive-press supplied air respirators may be required for high airborne contaminant concentrat

Gloves : Wear appropriate chemical resistant gloves.

Eye Protection : Wear chemical safety goggles.

Skin Protection : Wear impervios, long-sleeved clothing to minimize skin contact.

Hygiene Measures : When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical State / Color)	: Solid / White
Odor	: Chlorine Odor
Molecular Weight	: 219.95
pH	: Approx. 6.6 (1% solution)
Melting Point	: Not applicable
Boiling Point	: Not applicable
Flash Point	: Not applicable
Ignition Point	: Not applicable
Flammability (Solid, Gas)	: Not available
Explosive Limit	: Not available
Vapour Pressure	: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density	: Not available
Evaporation Rate	: Not available
Gravity	: 2.0 (Absolute Specific Gravity)
Water Solubility	: 25g/100g (25 degree C)
Partition Coefficient : n-octanol / water	: Not available
Decomposition Temperature	: 240 - 250 degree C

10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions. : Converted to Hypochlorous acid and Isocyanuric acid when dissolve product in water.
Condition to Avoid	: Protect from moisture. Imcompatible products.
Imcompatible Products	: Acid, Alkali, Other chlorine agents, oils/fats and flammable materials
Hazardous Decomposition Products	: Chlorine, Nitrogen trichloride, Hydrogen chloride, Nitrogen oxide,carbon monoxide, carbon dioxide, and nitrogen
Hazardous Reactions	: None under normal processing

11. TOXOLOGICAL INFORMATION

Acute Toxicity	(oral)	: Rat LD_{50} 1,823mg/kg
	(dermal)	: Rabbit LD_{50} >2000mg/kg
	(inhalation)	: Rat LC_{50} 0.27 - 1.17mg/L (4hr)
Skin Corrosion / Irritation		: Severe skin burns
Serious Eye Damage / Eye Irritation		: Serious eye damage
Respiratory Sensiation		: Not available
Skin Sensation		: Not available
Germ Cell Mutagenicity		: AMES Test; Negative (Test substance: monosodium cyanurate) (1) Mouse Lymphoma Assay; Negative (Test substance: monosodium cyanurate) (1)
Carcinogenicity		: This product is not classified as a carcinogen by NTP, IARC or OSHA.
Reproductive Toxicity		: Not available

11. TOXOLOGICAL INFORMATION

Specific Target Organ Toxicity - Single Exposure	: Breathing dust or fumes is expected to be a primary route o exposure. May produce throat and respiratory tract irritation.
Specific Target Organ Toxicity - Repeated Exposure	: Not available
Aspiration Hazard	: Not available
Other Information	: Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity	: LC50 0.38mg/l (ORYZIAS LATIPES, 96hour)
Persistence and degradability	: (As Isocyanuric Acid) Decomposable in the nature. 0% by BOD after 14 days, 7.8% by TOC after 14 days, 5.3% by HPLC after 14 days. (3) 100% in aerobic activated sludge after 8 hours, 100% in anaerobic sludge after 72 hours, 52-100% in some soils and sludges after 9-23 days. (4)
Bioaccumulation	: Not bioaccumulate as Isocyanuric acid (5)
Mobility in soil	: Not available
Other adverse effect	: Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	: Dissolve product in large amount of water and add reducing agent gradually. After decompose residual chlorine, adjust pH neutral and discharge into oceans or other waters. : Do not dispose of wastes into garbage can or garbage dump which may cause fire.

14. TRANSPORT INFORMATION

Transportation Methods	: Keep product dry in tightly closed container and load secure in order to avoid damages. : Avoid moisture, heat and direct sunlight. : Keep away from water, oxidizing agents, alcalies, grease, reducing agents and acids.

IMDG/IMO

Proper Shipping Name	: Dichloroisocyanuric acid, dry
Hazard Class	: 5.1
UN No.	: 2465
Packing Group	: II
EmS No.	: F-A, S-Q
Marpol	: Yes

14. TRANSPORT INFORMATION

ICAO/ IATA

Proper Shipping Name	: Dichloroisocyanuric acid, salts
Hazard Class	: 5.1
UN No.	: 2465
Packing Group	: II
ERG Code	: 5L
Additional Information	: Marine Pollutant

15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)	: All components are listed on the TSCA inventory.
Clean Water Act (CWA)	: None of the ingredients is listed.
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)	: CAS no. 2893-78-9
SARA Section 302 (RQ)	: None of the ingredients is listed.
SARA 311/312	: Hazard category Acute Health Hazards
SARA Section 313	: None of the ingredients is listed.
HAPS Hazardous Air Pollutants	: None of the ingredients is listed.
Volatile organic compounds (VOC)	: Value 0 pound / gallon
HMIS Classification	: Health 3 Flammability 1 Physical Hazard 1 Personal Protection F
NFPA Rating	: Health 3 Flammability 1 Physical Hazard 1
CARCINOGENICITY IARC	: None of the ingredients is listed in group 1, 2A or 2B.
New Jersey Worker and Community Right to Know Act.	: Following ingredients are listed: CAS no. 2893-78-9
California Proposition 65.	: None of the ingredients is listed.
Pennsylvania HAZARDOUS SUBSTANCE LIST	: Following ingredients are listed: CAS no. 2893-78-9

16. OTHER INFORMATION

Excerpt

(1)[A Review of Toxicology Studies on Cyanurate and it's Chlorinated Derivatives] Environmental Health Perspectives Vol. 69. 278 (1986)
(2)[Biodegradation of Cyanuric Acid] Applied Microbiology.28(6)1004(1974)
(3)OECD SIDS InitiaAssessment Reort for 9th SIAM (France, June 29-July1, 1999)
(4)Ad Hoc Committee, EPA report 201-14660B (2003)
(5)The Journal of Hygienic, Chemistry 24, (1) 49～59(1978)

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