

MATERIAL SAFETY DATA SHEET

Product : Sodium Dichloro Isocyanurate Tablets 1.5 gm
(ECODO Sani Tab)

Section 1 - Chemical Product and Company

Manufacturer : Unicare Remedies Pvt. Ltd.

E/86, EPIP Zone, GIDC Estate, At & Po. Manjusar - 391 775, Taluka: Savli
District: Baroda, INDIA

Common Name : Sodium Dichloro Isocyanurate Tablets 1.5 gm

Section 2 - Composition / Information on Ingredients

Chemical Name : Sodium dichloroisocyanurate

Molecular Weight: 219.95

Molecular formula: $C_3Cl_2N_3NaO_3$

Ingredient

Sodium dichloroisocyanurate

Excipients

CAS

2893-78-9

NA

Exposure Guidelines: All the information is MERCK INDEX / MARTINDALE.

SYNONYMS:

Sanitization tablets, Chlorine tablets, Sodium Dichloro-Striazinetriene, Sodium Dichloroisocyanurate, Chemical Abstract Name: 1,3,5-Triazine- 2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt

SUBSTANCE IDENTIFICATION

SUBSTANCE: Sodium dichloroisocyanurate tablets for sanitizing water purification equipment.

Section 3 - Hazards Identification

Appearance: White, round shaped, Flat, Uncoated Tablet.

Major Health Hazards: Caution! Causes severe eye and skin irritation and possible respiratory and digestive tract irritation



Physical Hazards: Strong oxidizer. Contact with other materials may cause a fire.

Health Effects

Route of Entry Potential Health Effects and Symptoms of Exposure

Skin: Causes severe eye irritation.

Eyes: Causes skin irritation; irritation may be severe, especially if the skin is wet or moist.

Ingestion: May cause irritation of the digestive tract. Systemic effects by ingestion include ulceration or bleeding from the stomach.

Other effects includes lacrymation, dyspnea, weakness, emaciation, diarrhea, and coma. Ingestion of very high dosages may lead to gastrointestinal irritation, liver dysfunction, lung congestion and possible death.

Inhalation: May cause respiratory tract irritation.

Target organs: None known.

Medical Conditions: No information is available

Aggravated by Exposure

SECTION 4 - FIRST AID

Ingestion: Seek immediate medical attention. Avoid inducing vomiting or giving bicarbonates or carbonates

Eyes: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids. Get medical attention immediately

Skin: Immediately remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water for at least 10 minutes. Seek medical attention immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Note to Physician: consider oxygen for respiratory distress and gastric lavage if ingested.

SECTION 5 - FIRE FIGHTING MEASURES

Fire & Explosion Hazards: Not combustible but may ignite or cause an explosion in contact with combustible materials. Releases irritating, toxic gases and fumes in a fire.

Extinguishing Media: Use water to cool containers until well after fire is out. For small fires, avoid using dry chemicals, carbon dioxide, halogenated or foams.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills and Leaks: Evacuate spill area! Do not wash material into sewer. Carefully sweep spilled substance into dry containers, using non-combustible tools Do not absorb in saw-dust or other combustible absorbents



SECTION 7- HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation.

Storage: Store tightly closed container in a cool, dry, well-ventilated area away from combustible and other incompatible substances. Keep away from heat, sparks, and flame. Keep away from sources of ignition.

SECTION 8 - PERSONAL PROTECTION AND EXPOSURE CONTROL

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protection:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Gloves and Clothing: Wear appropriate impervious gloves and protective clothing to prevent skin contact

Respirator Use: A NIOSH/MSHA approved air purifying dust or mist respirator. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: White solid
Specific Gravity (Water = 1.0)	: 1.4
Odor	: Chlorine
Odor threshold	: 0.08 ppm (Chlorine)
Water solubility	: Soluble
pH	: Not applicable
Melting Point	Decomposes at temperatures > 100° C
Boiling Point	: Not applicable
Vapor Pressure	: Not applicable
Vapor Density	: Not applicable
Volatility	: Not applicable
Evaporation Rate	: Not applicable
Coefficient of water/oil distribution	: Not applicable



SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to avoid Avoid generating dust.

Hazardous Polymerization: Has not been reported.

Incompatible with: Strong oxidizing agents, moisture, strong bases, ammonium salts, nitrogenous materials.

Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Carcinogenicity: Sodium dichloroisocyanurate is listed as carcinogenic by IARC, NTP, NIOSH or OSHA.

Acute Effects: Severe eye, skin and mucous membrane irritation, and possible respiratory and digestive tract irritation

Toxicity Data:

Teratogenicity: A teratogen in laboratory animals

Reproductive Effects: Reproductive effects have been observed in laboratory animals.

Exposure Limits:

INGREDIENT	OSHA PEL	ACGIH TLV	NIOSH REL
Sodium Dichloroisocyanurate	None listed	None listed	None listed
Chlorine	1 ppm (ceiling)	0.5 ppm (8 hr. TWA) 1 ppm (STEL) (skin)	0.5 ppm (8 hr. TWA) 1 ppm (STEL)

SECTION 12 - ECOLOGICAL INFORMATION

Sodium Dichloroisocyanurate is considered an environmental hazard, and is toxic to aquatic organisms.

SECTION 13- DISPOSAL INFORMATION

Sodium Dichloroisocyanurate (CAS # 2893-78-9) is not listed as a RCRA F, P, or U Series hazardous waste. Users, with the assistance of their hazardous waste disposal contractor should determine if the chemical meets the definition of a waste oxidizer such as D001 (USA) under local regulations. Wastes containing Millipore Chlorine Tablets should be disposed of in a manner consistent with federal, state and local regulations.



SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name Dichloroisocyanuric acid salts
Hazard Class 5.1
UN ID Number UN2465
Packing Group II

SECTION 15 - REGULATORY INFORMATION

Dichloroisocyanuric acid, sodium salt, CAS# 2893-78-9, is listed on the Toxic Substances Control Act (TSCA) Inventory

California No significant Risk Level: Dichloroisocyanuric acid, sodium salt, CAS# 2893-78-9, is not listed.

European Labeling in Accordance with EC Directives:

Hazard Symbols : XnO

Risk Phrases:

R 22 Harmful if swallowed
R 31 Contact with acids liberates toxic gas.
R 36/37 Irritating to eyes and respiratory system.
R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 41 In case of fire and/or explosion do not breathe fumes.
S 8 Keep container dry.

This product does not have a WHMIS classification.

SECTION 16- ADDITIONAL INFORMATION

The physical, chemical and toxicological properties of Dichloroisocyanuric acid, sodium salt, have not been thoroughly investigated.

All rights reserved. The above information is believed to be current and accurate; however, no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

For additional information contact:

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GLOSSARY:

ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
BEI = Biological Exposure Index
CAS Number = Chemical Abstract Service Registry Number
CERCLA = Comprehensive Environmental Response Compensation and Liability Act (of 1980)
CHAN = Chemical Hazard Alert Notice
CHEMTREC = Chemical Transportation Emergency Center
DOT = Department of Transportation
EC = European Community
EINECS = European Inventory of Existing Chemical Substances
ELINCS = European List of New Chemical Substances
EPA = Environmental Protection Agency
HEPA = High Efficiency Particulate Air (Filter)
IARC = International Agency for Research on Cancer
ICAO/IATA = International Civil Aviation Organization/International Air Transport Association
IMO = International Maritime Organization
Kow = Octanol/Water Partition Coefficient
LEL = Lower Explosive Limit
MSDS = Material Safety Data Sheet
MSHA = Mine Safety and Health Administration
NA = Not Applicable, except in Section 14 where NA = North America
NADA = New Animal Drug Application
NAIF = No Applicable Information Found
NCI = National Cancer Institute
NIOSH = National Institute for Occupational Safety and Health
NOS = Not Otherwise Specified
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit (OSHA)
RCRA = Resource Conservation and Recovery Act
RQ = Reportable Quantity
RTECS = Registry of Toxic Effects of Chemical Substances
SARA = Superfund Amendments and Reauthorization Act
STEG = Lilly Short Term Exposure Guideline
STEL = Short Term Exposure Limit
TLV = Threshold Limit Value (ACGIH)
TPQ = Threshold Planning Quantity
TSCA = Toxic Substances Control Act
TWA = Time Weighted Average / 8 Hours Unless Otherwise Noted
UEL = Upper Explosive Limit
UN = United Nations
WEEL = Workplace Environmental Exposure Level (AIHA)

