

Sodium dichloroisocyanurate 2893-78-9 MSDS

Section 1 - Chemical Product MSDS Name:Dichloroisocyanuric acid sodium salt Material Safety Data Sheet

Synonym:Sodium dichloroisocyanurate; 1-Sodium-3,5-dichloro-s-triazine-2,4,6-trione

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content
2893-78-9	Dichloroisocyanuric acid, sodium salt	>96

Hazard Symbols: XN O N

Risk Phrases: 22 31 36/37 8 50/53

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Contact with acids liberates toxic gas.

Irritating to eyes and respiratory system. Contact with combustible material may cause fire. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Moisture sensitive.

Potential Health Effects

Eye:

Causes severe eye irritation. Lachrymator (substance which increases the flow of tears).

Skin:

May cause skin irritation.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.

Systemic effects by ingestion include ulceration or bleeding from the stomach. Other effects include tearing, dyspnea (labored breathing), weakness, emaciation, diarrhea, and coma.

Inhalation:

Causes respiratory tract irritation.

Chronic:

No information found.

Section 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

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

Notes to Physician:

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. Containers may explode when heated.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Cool containers with flooding quantities of water until well after fire is out.

Section 6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation.

Storage:

Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 2893-78-9: Personal Protective Equipment Eyes: 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.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Granules

Color: white

Odor: chlorine-like

pH: 60-7.0, 1% aq. sol.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 230 deg C (446.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 230 deg C

Solubility in water: Soluble.

Specific Gravity/Density:

Molecular Formula: C3Cl2N3O3Na

Molecular Weight: 219.95

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures. Moisture sensitive.

Conditions to Avoid:

Dust generation.

Incompatibilities with Other Materials:

Reducing agents, strong bases, acids.

Hazardous Decomposition Products:

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 2893-78-9: XZ1900000 LD50/LC50:

CAS# 2893-78-9: Draize test, rabbit, eye: 100 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg Severe; Oral, rat: LD50 = 1420 mg/kg.

Carcinogenicity:

Dichloroisocyanuric acid, sodium salt - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Other No information available.

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: DICHLOROISOCYANURIC ACID, SALTS

Hazard Class: 5.1

UN Number: 2465

Packing Group: II

IMO

Shipping Name: DICHLOROISOCYANURIC ACID SALTS

Hazard Class: 5.1

UN Number: 2465

Packing Group: II

RID/ADR

Shipping Name: DICHLOROISOCYANURIC ACID SALTS

Hazard Class: 5.1

UN Number: 2465

Packing group: II

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN O N

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 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 8 Keep container dry.

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 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to

special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 2893-78-9: 2

Canada

CAS# 2893-78-9 is listed on Canada's DSL List.

CAS# 2893-78-9 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 2893-78-9 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A
