

# SAFETY DATA SHEET

Version 6.3 Revision Date 05/10/2021 Print Date 02/05/2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Sodium dichloroisocyanurate

Product Number : 218928 Brand : Aldrich

Index-No. : 613-030-00-X CAS-No. : 2893-78-9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

: +1 314 771-5765 : +1 800 325-5052

1.4 Emergency telephone

Telephone

Fax

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids (Category 2), H272 Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal word Danger

Hazard statement(s)

H272 May intensify fire; oxidizer. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dusts or mists.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam to extinguish.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal

plant.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Lachrymator., Sternutator.

#### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Formula : C3Cl2N3NaO3 Molecular weight : 219.95 g/mol CAS-No. : 2893-78-9 EC-No. : 220-767-7 Index-No. : 613-030-00-X

| Component | Classification | Concentration |



Ox. Sol. 2; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H272, H302, H314, H318, H335, H400, H410 Concentration limits: >= 10 %: STOT SE 3, H335; >= 10 %: , EUH031; M-Factor - Aquatic Acute:

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

No data available

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

No data available

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen chloride gas

Sodium oxides

Combustible.

Avoid shock and friction.

In the event of decomposition: danger of explosion!

#### **5.3** Advice for firefighters

No data available

#### 5.4 Further information

No data available

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

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#### 6.2 Environmental precautions

No data available

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

#### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Moisture sensitive

Storage class (TRGS 510): 4.1A: Other explosive hazardous materials

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

No data available

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a) Appearance Form: powder

Color: white

b) Odor Chlorine

c) Odor Threshold No data available

d) pH 6.2 - 6.8 at 10 g/l at 25 °C (77 °F)

e) Melting No data available

point/freezing point

f) Initial boiling point No data available

and boiling range

g) Flash point ()No data available

h) Evaporation rate No data available

i) Flammability (solid, The product is not flammable. - Flammability (solids)

gas)

j) Upper/lower No data available

flammability or explosive limits

k) Vapor pressure < 0.000 hPa at 20 °C (68 °F)

I) Vapor density No data availablem) Relative density No data available

n) Water solubility 236.8 g/l at 25 °C (77 °F) - US-EPA - completely soluble

o) Partition coefficient: n-octanol/water

No data available

p) Autoignition temperature

No data available

q) Decomposition temperature

240 °C (464 °F) -

r) Viscosity No data available

s) Explosive properties May mass explode in fire.

t) Oxidizing properties The substance or mixture is classified as oxidizing with the

category 2.

### 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

# 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials

Strong bases, Strong oxidizing agents

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 1,823 mg/kg (US-EPA)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: troclosene sodium, dihydrate

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LC50 Inhalation - Rat - male and female - 4 h - 0.27 - 1.17 mg/l (OECD Test Guideline 403)
LD50 Dermal - Rat - male and female - > 5,000 mg/kg (US-EPA)
No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: Causes burns. - 24 h

(US-EPA)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye damage.

(US-EPA)

### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

### Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation Method: Regulation (EC) No. 440/2008, Annex, B.19

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation Method: Regulation (EC) No. 440/2008, Annex, B.17

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Species: Rat

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

### Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

#### Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

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### Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

#### 11.2 Additional Information

Repeated dose toxicity - Mouse - female - Oral - 104 Weeks - NOAEL (No observed adverse effect level) - 1,523 mg/kg

Repeated dose toxicity - Rat - male and female - inhalation (dust/mist/fume) - 4 Weeks Remarks: (in analogy to similar products) (ECHA)

The value is given in analogy to the following substances: symclosene

RTECS: XZ1900000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to fish static test LC50 - Menidia beryllina (Inland silverside) - 8,000 mg/l -

> 96 h (US-EPA)

Toxicity to daphnia

and other aquatic

invertebrates

static test EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h

Remarks: (ECHA)

static test ErC50 - Skeletonema costatum - > 100 mg/l - 72 h Toxicity to algae

(ISO 10253)

EC50 - activated sludge - > 4,500 mg/l - 3 hToxicity to bacteria

(OECD Test Guideline 209)

#### 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 8 h

Result: 100 % - Readily biodegradable.

Remarks: (ECHA)

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Other adverse effects

No data available



### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

No data available

### **SECTION 14: Transport information**

DOT (US)

UN number: 2465 Class: 5.1 Packing group: II

Proper shipping name: Dichloroisocyanuric acid salts

Reportable Quantity (RQ): Poison Inhalation Hazard: No

**IMDG** 

UN number: 2465 Class: 5.1 Packing group: II EMS-No: F-A, S-Q

Proper shipping name: DICHLOROISOCYANURIC ACID, SALTS

Marine pollutant : yes

**IATA** 

UN number: 2465 Class: 5.1 Packing group: II

Proper shipping name: Dichloroisocyanuric acid, salts

### **SECTION 15: Regulatory information**

### **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard

### **Massachusetts Right To Know Components**

Dichloroisocyanuric acid sodium salt

CAS-No. Revision Date
2893-78-9
2010-08-02

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components** 

Dichloroisocyanuric acid sodium salt CAS-No. Revision Date 2893-78-9 2010-08-02

**New Jersey Right To Know Components** 

Dichloroisocyanuric acid sodium salt CAS-No. Revision Date 2893-78-9 2010-08-02

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### **SECTION 16: Other information**

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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Millipore