

Material Safety Data Sheet

Date Printed: 10/30/2008 Date Updated: 01/25/2007 Version 1.50

Section 1 - Product and Company Information

Product Name Product Number Sodium dichloroacetate, 98%

347795

Aldrich Chemical

Company Address

Brand

Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone:

SAINT LOUIS, MO 63103 US 800-325-5832 800-325-5052

Emergency Phone:

314-776-6555

EC no

218-461-3

Section 2 - Composition/Information on Ingredient

Substance Name

CAS# 2156-56-1 **SARA 313**

Annex I Index <u>Number</u>

SODIUM DICHLOROACETATE

CI2CHCO2Na

Formula Synonyms

Dichloroacetate, sodium salt. Dichloroacetic acid sodium salt. Dichloroctan sodny (Czech), Sodium

dichloroacetate

Section 3 - Hazards Identification

Emergency Overview

Irritant

Irritating to eyes, respiratory system and skin.

HMIS Rating Health: 2

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143)

Hand

Compatible chemical-resistant gloves.

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Solid

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Molecular Weight N/A N/A BP/BP Range MP/MP Range 198 °C Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A Bulk Density N/A Odor Threshold N/A N/A Volatile% VOC Content N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A **Autoignition Temp** N/A Solubility N/A N/A = not available

150.93 AMU

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

Conditions to Avoid

Moieture

Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Hydrogen chloride gas

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eve Contact

Causes eye irritation.

Inhalation

Material is irritating to mucous membranes and upper respiratory tractMay be harmful if inhaled.

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Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

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

RTECS Number: AG9275000

Toxicity Data

Oral - Rat: 5281 mg/kg (LD50)

Oral - Mouse: 4845 mg/kg (LD50)

Intraperitoneal - Mouse: >3 GM/KG (LD50)

Chronic Exposure - Carcinogen

Mouse - Oral: 164 GM/KG 1Y C

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors.

Chronic Exposure - Reproductive Hazard

<u>Dose</u> Species 182 GM/KG Route of Application

Exposure Time (13W MALE)

Result: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology,motility, and count)Paternal

Effects: Testes, epididymis, sperm duct.

4375 MG/KG

(10W MALE) Oral

Result: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). (10W MALE)

2188 MG/KG Oral Result: Paternal Effects: Testes, epididymis, sperm duct.

Section 12 - Ecological Information

No data available.

Rat

Rat

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

Non-Hazardous for Air Transport Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xi

Indication of Danger

Irritant

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Risk Statements

R: 36/37/38

Irritating to eyes, respiratory system and skin.

Safety Statements S: 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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US Classification and Label Text

Indication of Danger

Irritant.

Risk Statements

Irritating to eyes, respiratory system and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

United States Regulatory Information

SARA Listed: No

Canada Regulatory Information WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present stated our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigmaldrich Inc., shall not be held liable for any damage resulting from handling or forn contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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