

# **Material Safety Data Sheet**

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#### Section 1 - Product and Company Information

**Product Name** 

Sodium carbonate decahydrate, 99,999% metals basis

Product Number Brand

Aldrich Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone: SAINT LOUIS, MO 63103 US

800-325-5832 800-325-5052

577782

Emergency Phone:

314-776-6555

# Section 2 - Composition/Information on Ingredient

Substance Name

CAS# 6132-02-1 SARA 313

<u>EC no</u> 207-838-8

Annex I Index Number 011-005-00-2

SODIUM CARBONATE DECAHYDRATE

Formula Synonyms NA2CO3.10H2O

# Section 3 - Hazards Identification

### **Emergency Overview**

Irritant.

Irritating to eyes.

**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.

#### Eye Exposure

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

# Section 5 - Fire Fighting Measures

**Autoignition Temp:** 

V/A

# **Extinguishing Media**

Suitable

Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

#### 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

#### Handlin

#### 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) respirator.

# Hand

Compatible chemical-resistant gloves.

# Eye

Chemical safety goggles.

#### General Hygiene Measures

Wash thoroughly after handling.

# Section 9 - Physical/Chemical Properties

Appearance Physical State Solid

Color Colorless Form Crystalline

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Molecular Weight 285.99 AMU 12.0 **BP/BP Range** N/A MP/MP Range N/A Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density 144 g/cm3 20 °C **Bulk Density** 7 - 9 kg/l Odor Threshold N/A Volatile% N/A **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** Flammability N/A **Autoignition Temp** N/A Solubility Solubility in Water: 0.5 M in H2O, 20°C, complete, colorless

# Section 10 - Stability and Reactivity

#### Stability

Conditions of Instability

Moisture.

N/A = not available

Conditions to Avoid

Moisture

Materials to Avoid

Strong acids, Aluminum

# **Hazardous Decomposition Products**

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

# Section 11 - Toxicological Information

# Route of Exposure

Skin Contact

May cause skin irritation

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes eye irritation.

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract

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Sigma-Aldrich Corporation www.sigma-aldrich.com 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: N/A

# Section 12 - Ecological Information

No data available.

#### 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 euipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### Section 14 - Transport Information

DO

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to benon-hazardous for transport.

IAT

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

R: 36

#### Section 15 - Regulatory Information

#### **EU Directives Classification**

Symbol of Danger: Xi

Indication of Danger

Irritant.

Risk Statements

Irritating to eyes.

itating to eyes.

Safety Statements S: 22 26

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### **US Classification and Label Text**

Indication of Danger

Irritant.

Risk Statements

Irritating to eyes.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical adviceWear suitable protective clothing.

#### **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

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# Section 16 - Other Information

#### Disclaimer

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

Warranty
The above information is believed to becorrect 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 state of 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. SigmaNdirich inc., shall not be held liable for any damage resulting from handling or from 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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