

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 27/05/2020 Date of issue: 15/12/2010 Supersedes: 18/10/2019 Version: 3.2

CLM-4810

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

Product identifier 1.1.

Product form : Substance

: SODIUM CARBONATE (12C, 99.99%) Substance name

EC Index-No. : 011-005-00-2 EC-No. : 207-838-8

CAS-No. : 497-19-8 (Unlabeled)

Product code : CLM-4810 : Na2*CO3 Formula Synonyms : Soda ash

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

1.2.1. Relevant identified uses

: Professional use Main use category

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1A H314 Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C: R34 Xi; R36

Full text of R-phrases: see section 16

GHS-US classification

Skin Corr. 1A H314 Eye Irrit. 2A H319

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. **Label elements**

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

P260 - Do not breathe dust, fume, gas, mist, spray, vapors. Precautionary statements (CLP)

P264 - Wash Both hands thoroughly after handling. P280 - Wear protective clothing, protective gloves.

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 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

GHS-US labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US)

Hazard statements (GHS-US) H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) P260 - Do not breathe dust, fume, gas, mist, spray, vapors.

P264 - Wash Both hands thoroughly after handling. P280 - Wear protective clothing, protective gloves.

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 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center or doctor

P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to Comply with applicable regulations

Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

Substances 3.1.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
SODIUM CARBONATE (12C, 99.99%)	(CAS-No.) 497-19-8 (Unlabeled) (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2	100	C; R34 Xi; R36
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SODIUM CARBONATE (12C, 99.99%)	(CAS-No.) 497-19-8 (Unlabeled) (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2	100	Skin Corr. 1A, H314 Eye Irrit. 2, H319

Full text of R- and H- phrases: see section 16

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Name	Product identifier	%	GHS-US classification
SODIUM CARBONATE (12C, 99.99%) (Main constituent)	(CAS-No.) 497-19-8 (Unlabeled)	100	Skin Corr. 1A, H314 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

Mixtures

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area

First-aid measures after inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact Wash with soap and plenty of water. Consult a physician.

First-aid measures after eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

42 Most important symptoms and effects, both acute and delayed

: May be harmful if inhaled. Causes respiratory tract irritation. Symptoms/effects after inhalation

Symptoms/effects after skin contact May be harmful if absorbed through the skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available

First-aid measures after ingestion

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions : The product itself does not burn.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : Not flammable or combustible

For non-emergency personnel

Emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

For emergency responders

No additional information available

Environmental precautions

Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

For containment Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,

closed containers for disposal.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed

: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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Hygiene measures

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature away from light and moisture.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Exposure controls

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Choose body protection according to the amount and concentration of the dangerous

substance at the work place. Handle with gloves.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

: Solid Physical state : Powder Appearance Molecular mass : 105.98 g/mol Color : White

Odor No data available Odor threshold No data available

: 12 at 106 g/l at 25 °C (77 °F) pΗ

Relative evaporation rate (butyl acetate=1) : No data available : 851 °C (1,564 °F) Melting point Freezing point : No data available **Boiling point** : 1600 °C (2,912 °F) Flash point : No data available Auto-ignition temperature No data available Decomposition temperature 400 °C (752 °F) Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density 2.532 g/cm3

Solubility : Water: 106 g/l at 20 °C (68 °F)

Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidizing properties : No data available **Explosion limits** : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

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10.2. **Chemical stability**

Stable if stored under recommended conditions.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

Avoid moisture.

Incompatible materials 10.5.

Strong acids.

10.6. **Hazardous decomposition products**

Formed under fire conditions: Carbon oxides, Sodium/sodium oxides.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Not classified

SODIUM CARBONATE (12C, 99.99%) (497-19-8 (Unlabeled))	
LD50 oral rat	4090 mg/kg
LC50 inhalation rat (mg/l)	5750 mg/l 2 h
ATE CLP (oral)	4090.000 mg/kg body weight
ATE CLP (vapors)	5750.000 mg/l/4h
ATE CLP (dust, mist)	5750.000 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.

> Skin - rabbit - Mild skin irritation - 24 h pH: 12 at 106 g/l at 25 °C (77 °F)

Serious eye damage/irritation : Causes serious eye irritation.

> Eyes - rabbit - Eye irritation - 24 h pH: 12 at 106 g/l at 25 °C (77 °F)

Respiratory or skin sensitization : Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified

exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea,

Vomiting.

Symptoms/effects after inhalation : May be harmful if inhaled. Causes respiratory tract irritation.

Symptoms/effects after skin contact : May be harmful if absorbed through the skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

Toxicity 12.1.

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

SODIUM CARBONATE (12C, 99.99%) (497-19-8 (Unlabeled))	
LC50 fish 1	300 mg/l - 96 h, Lepomis macrochirus (Bluegill) -
EC50 Daphnia 1	265 mg/l - 48 h, Daphnia magna (Water flea) -

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Not dangerous goods.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : Not dangerous goods.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

SODIUM CARBONATE (12C, 99.99%) (497-19-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

15.2. International regulations

CANADA

SODIUM CARBONATE (12C, 99.99%) (497-19-8 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

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15.3. US State regulations

SODIUM CARBONATE (12C, 99.99%)(497-19-8 (Unlabeled))	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
R34	Causes burns
R36	Irritating to eyes
С	Corrosive
Xi	Irritant

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

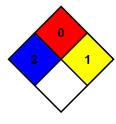
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions,

including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can

become unstable at elevated temperatures and pressures.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard
Physical : 1 Slight Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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