

Part of Thermo Fisher Scientific

Material Safety Data Sheet

Creation Date 15-Oct-2009 Revision Date 28-Feb-2013 Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Sodium carbonate

Cat No. BP357-1; S261-10; S263-1; S263-3; S263-10; S263-50; S263-50LC; S263-

500; S263-500LC; S495-500

Synonyms Disodium carbonate; Soda ash; Carbonic acid, disodium salt

(Anhydrous/Crystalline/Powder/Calcined/Laboratory/Certified ACS/HPLC)

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Irritating to eyes and skin. May cause irritation of respiratory tract. May cause central nervous system effects. Corrosive

to metal in aqueous solution. Hygroscopic.

Appearance White Physical State Solid Odor odorless

Target Organs Skin, Eyes, Central nervous system (CNS)

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes Irritating to eyes. Lachrymator (substance which increases the flow of tears).

Skin Irritating to skin. May be harmful in contact with skin.

Inhalation May be harmful if inhaled. May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed. May cause central nervous system effects. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Experiments have shown reproductive toxicity effects on laboratory animals.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

| Component | CAS-No | Weight % | | |
|------------------|----------|----------|--|--|
| Sodium carbonate | 497-19-8 | >95 | | |

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Ingestion Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point
No information available.

Method No information available.

Autoignition Temperature No information available.

Explosion Limits

UpperNo data availableLowerNo data available

Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media

No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impactNo information available.Sensitivity to static dischargeNo information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2 Flammability 0 Instability 1 Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Should not be released into the environment.

Up

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin,

or on clothing. Avoid dust formation. Do not breathe dust.

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location. Ensure

adequate ventilation, especially in confined areas.

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection **Respiratory Protection**

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.

Wear appropriate protective gloves and clothing to prevent skin exposure.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid White **Appearance**

Odor odorless No information available. **Odor Threshold**

11.6@ 20°C

Vapor Pressure No information available.

Vapor Density No information available. **Viscosity** No information available.

Boiling Point/Range 1600°C / 2912°F@ 760 mmHg 851°C / 1563.8°F

Melting Point/Range Decomposition temperature No information available. No information available. **Flash Point**

Evaporation Rate No information available. **Specific Gravity** 2.53

Solubility Partly soluble in water log Pow No data available

Molecular Weight 105.99 Molecular Formula Na2CO3

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions. Hygroscopic.

Conditions to Avoid Avoid dust formation. Incompatible products. Excess heat.

Exposure to moisture.

Incompatible Materials Strong oxidizing agents, Strong acids, Fluorine

Hazardous Decomposition Products Carbon monoxide (CO₂), Sodium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing..

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information See actual entry in RTECS for complete information.

Component Information

| Component LD50 Oral | | LD50 Dermal | LC50 Inhalation | | |
|---------------------|------------------|------------------|-----------------|-------------------|--|
| | Sodium carbonate | 4090 mg/kg (Rat) | Not listed | 2.3 mg/l 2h (Rat) | |

Irritation Irritating to eyes and skin

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects No information available.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects No information available.

Teratogenicity No information available.

Other Adverse Effects See actual entry in RTECS for complete information.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

| Component | Freshwater Algae Freshwater Fish | | Microtox | Water Flea |
|------------------|----------------------------------|-----------------------------|------------|----------------------|
| Sodium carbonate | 242 mg/L EC50 = 120 h | Lepomis macrochirus: LC50: | Not listed | 265 mg/L EC50 = 48 h |
| | - | 300 mg/L/96h | | _ |
| | | Gambusia affinis: LC50: 740 | | |
| | | mg/L/96h | | |

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | CHINA | KECL |
|------------------|------|-----|------|---------------|--------|-----|-------|------|------|-------|------|
| Sodium carbonate | Х | Х | - | 207-838- | - | | Χ | Χ | Х | Χ | Χ |
| | | | | 8 | | | | | | | |

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No

Reactive Hazard

No

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA

Not applicable

CERCLA

Not Applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

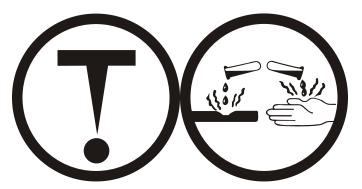
Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2B Toxic materials E Corrosive material



16. OTHER INFORMATION

Prepared By Regulatory Affairs

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Revision Summary "***", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS