



Material Safety Data Sheet

Sodium carbonate solutions

Section 1 - Chemical Product and Company Identification

MSDS Name:

Sodium carbonate solutions

Catalog Numbers:

LC22970, LC22975, LC22980, LC22990, LC23000, LC23020, LC23350, LC23380, LC23390

Synonyms:
Company Identification:

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
497-19-8	Sodium carbonate	0.12-10.6

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless

Caution! May cause severe eye irritation and possible injury. May cause severe respiratory and digestive tract irritation with possible burns.

Target Organs: Noneknown.

Potential Health Effects

Eye:

May cause alkali burns, conjunctival edema, corneal destruction, opacification, blurred vision, possible permanent damage.

Skin:

Alkali penetration, time and concentration dependant, can produce mild irritation to burns, ulceration.



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Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. If death does not occur in 24 hr., victim improvement (2-4 days) changes with sudden onset abdominal pain, rigidity, hypotension, possible gastric/esophageal perforation with corrosive damage to upper gastro-intestinal tract.

Inhalation:

May cause irritation and delayed pulmonary edema.

Chronic:

Repeated inhalation may cause perforation of the nasal septum. May cause dermatitis and conjunctivitis. May cause blurred vision and corneal damage.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Induce vomiting (touch fingertip to back of throat) keeping head lower than hips (prevent aspiration into lungs). Give conscious non-convulsive victim large quantities of water to dilute the alkali.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 497-19-8: Not published.

Explosion Limits:

Lower: Upper:



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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium carbonate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. High levels - use dust, mist, fume respirators.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless

Odor: Odorless

pH: Alkaline



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Vapor Pressure: 14mm Hg @20°C

Vapor Density: 0.7 (H₂O=1)

Evaporation Rate: < Ether

Viscosity: No information found.

Boiling Point: 212°F (100.00°C)

Freezing/Melting Point: 32°F (0.00°C)

Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: 1.0

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, corrosive to zinc.

Incompatibilities with Other Materials

Acids, aluminum, phosphorus pentoxide, fluorine, lithium.

Hazardous Decomposition Products

Acrid smoke and fumes.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 497-19-8: VZ4050000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 497-19-8:

Inhalation, mouse: LC50 = 1200 mg/m³/2H

Inhalation, rat: LC50 = 2300 mg/m³/2H

Oral, mouse: LD50 = 6600 mg/kg

Oral, rat: LD50 = 4090 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 497-19-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Sodium carbonate is a severe eye, skin, and mucous membrane irritant.



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Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 497-19-8 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 497-19-8 is listed on Canada's DSL List.



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Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 497-19-8 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 17, 1998

Revision Date: March 28, 2007

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