Material Safety Data Sheet

Sodium Carbonate, Anhydrous

MSDS #: 497-19-8
Revision Date: 2014-01-30
Version 1

This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 And Canadian Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **Sodium Carbonate, Anhydrous**

Alternate Commercial Name Soda Ash

Chemical Name Sodium Carbonate
Synonyms Sodium carbonate; Carbonic acid, disodium salt; Disodium carbonate
Formula Na2CO3
Chemical Family Alkali salt

Recommended use: Glass manufacture ; Personal care; Detergent; Water treatment chemical; Chemical processing

Manufacturer

FMC Wyoming Corporation
Alkali Chemicals Division
1735 Market Street
Philadelphia, PA 19103
Tel: +1 215 / 299 6000
E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
1 303 / 595 9048 (Medical - U.S. - Call Collect)

1 307 / 872 2452 (Plant - Green River, WY)

2. HAZARDS IDENTIFICATION

Emergency Overview

Severe eye irritation
May cause skin irritation and/or dermatitis
White, odorless granular solid

Potential health effects

Acute Toxicity

Eyes Severely irritating (eyes). Avoid contact with eyes.
Skin Repeated exposure may cause skin dryness or cracking. Wash thoroughly after handling.
Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Chronic Toxicity No known effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Name	CAS-No	Weight %
sodium carbonate	497-19-8	100

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin contact Wash off with warm water and soap. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

Inhalation Remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Flash Point Not combustible

Suitable extinguishing media Use extinguishing agent suitable for type of surrounding fire.

Hazardous combustion products Fumes of sodium oxide.

Explosion Data
Sensitivity to Mechanical Impact Not sensitive.
Sensitivity to Static Discharge Not sensitive.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus and full protective gear.

NFPA	Health Hazard 2	Flammability 0	Stability 0	Special Hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation. Sweep up to prevent slipping hazard.

Methods for containment Prevent large quantities of this product from contacting vegetation or waterways. Cover with plastic sheet to prevent spreading Pick up and transfer to properly labeled containers Keep in suitable and closed containers for disposal

Methods for cleaning up Sweep or vacuum up spillage and return to container. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Handling Ensure adequate ventilation. Keep away from incompatible products (acids).

Storage Store in original container. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible products (acids).

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure guidelines Contains no substances with occupational exposure limit values. Local nuisance dust standards apply.

Occupational exposure controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. Provide appropriate exhaust ventilation at places where dust is formed.

General Information These recommendations apply to the product as supplied

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Eye/face protection Tightly fitting safety goggles

Skin and body protection Wear protective gloves/clothing.

Hand protection Natural Rubber, Neoprene gloves

Hygiene measures When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice Ensure that eyewash stations and safety showers are close to the workstation location

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	granules
Color	white
Physical state	solid
Odor	Odorless
Odor Threshold	Not applicable
pH	11.4 (1 % aqueous solution)
Melting Point/Range	851 °C
Freezing point	No information available
Boiling Point/Range	Not applicable
Flash Point	Not combustible
Evaporation rate	Not applicable
Flammable properties	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes
Oxidizing properties	Non-oxidizing
Explosive properties	Not explosive
Vapor pressure	No information available
Vapor density	No information available
Relative density	2.52
Bulk density	0.86 - 1.12 g/cm³ (Dense grades) 0.70 - 0.90 g/cm³ (Light Grades)
Molecular Weight	105.99
Water solubility	212.5 g/L @ 20 °C
Percent volatile	No information available
Partition coefficient	Not applicable
Viscosity	No information available
Decomposition Temperature	400 °C
Autoignition Temperature	Not combustible

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to avoid Exposure to air or moisture over prolonged periods

Materials to avoid Powdered aluminum

Hazardous decomposition products Sodium oxides.

Hazardous polymerization Hazardous polymerization does not occur.

Hazardous reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute effects

Eye irritation Severe irritant (rabbit)
Skin irritation Non-irritating to the skin

LD50 Oral 2,800 mg/kg (Rat)
LD50 Dermal > 2,000 mg/kg (rabbit)
LC50 Inhalation 800 mg/m^3 (guinea pig)

Sensitization Patch test on human volunteers did not demonstrate sensitization properties

Chronic Toxicity

Chronic Toxicity No known effect.

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)

12. ECOLOGICAL INFORMATION

Ecotoxicity

sodium carbonate (497-19-8)

Active Ingredient(s)	Duration	Species	Value	Units
Sodium Carbonate	96 h LC50	Bluegill sunfish	300	mg/L
Sodium Carbonate	48 h EC50	Ceriodaphnia	200-227	mg/L

Persistence and degradability Biodegradability does not pertain to inorganic substances.

Bioaccumulation Does not bioaccumulate.

Mobility Dissociates into ions.

Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

Waste disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Where possible recycling is preferred to disposal or incineration. Clean container with water. Dispose of rinse water in accordance with local and national guidelines.

14. TRANSPORT INFORMATION

DOT not regulated

TDG not regulated

ICAO/IATA not regulated

IMDG/IMO not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Inventory (United States of America)	Complies
DSL (Canada)	Complies
NDSL (Canada)	Complies
EINECS/ELINCS (Europe)	Complies
ENCS (Japan)	Complies
IECSC (China)	Complies
KECL (Korea)	Complies
PICCS (Philippines)	Complies
AICS (Australia)	Complies
NZIoC (New Zealand)	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

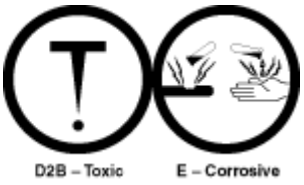
International Regulations

Mexico - Grade Moderate risk, Grade 2

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, Eye irritation
Class E : Corrosive to aluminum. Not corrosive to animal skin or carbon steel.



16. OTHER INFORMATION

HMIS	Health Hazard 2	Flammability 0	Stability 0	Special precautions -

NFPA/HMIS Ratings Legend
Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Product Certifications
This product meets the chemical testing specifications defined in the Food Chemicals Codex (FCC), 8th Edition.

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium carbonate, anhydrous is 150 mg/L under NSF/ANSI Standard 60.

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Reason for revision: (M)SDS sections updated. 16.

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End of Material Safety Data Sheet