Material Safety Data Sheet

Sodium Carbonate, Anhydrous

MSDS #: 497-19-8 Revision Date: 2013-03-26 Version 0.02



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

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Alternate Commercial Name	Sodium Carbonate, Anhydrous Soda Ash
Chemical Name Synonyms Formula Chemical Family	Sodium Carbonate Sodium carbonate; Carbonic acid, disodium salt; Disodium carbonate CH2O3.2Na Alkali salt
Recommended use	Glass manufacture ; Personal care; Detergent; Water treatment chemical; Chemical processing
Manufacturer	Emergency telephone number
FMC Wyoming Corporation Alkali Chemicals Division	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)

2. Hazards identification

Emergency Overview

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

Potential health effects

roughly after handling.
piratory system.

Chronic Toxicity

No known effect.

3. Composition/information on ingredients

Ingredients
Ingreutento

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 Sensitivity to Static Discharge	Not sensitive. 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 measure	S				

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 controls/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. These recommendations apply to the product as supplied **General Information 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. Tightly fitting safety goggles Eye/face protection 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

9.1 Information on basic physical and chemical properties

Appearance	granules
Color	white
Physical state	solid
Odor	odorless
Odor Threshold	not applicable
рН	11.4 (as 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 Molecular Weight Water solubility Percent volatile Partition coefficient: Viscosity 9.2 Other information	0.86 - 1.12 g/cm ³ (Dense grades) 0.70 - 0.90 g/cm ³ (Light Grades) 105.99 212.5 g/L @ 20 °C No information available. not applicable 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 Skin irritation	Severe irritant (rabbit) Non-irritating to the skin
LD50 Oral LD50 Dermal LC50 Inhalation:	2,800 mg/kg (rat) > 2,000 mg/kg (rabbit) 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)

Version 0.02

12. Ecological information

Ecotoxicity

Active Ingredient(s) 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 Bioaccumulation	-	Biodegradability does not pertain to inorganic substances.			
Bioaccumulation	Does not blo	baccumulate.			
Mobility	Dissociates	Dissociates into ions.			
Other adverse effects	None known	None known			
13. Disposal consideration	ons				
Waste disposal methods	This materia a hazardous otherwise al	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 regulate	not regulated			
TDG	not regulate	d			
ICAO/IATA	not regulate	not regulated			
IMDG/IMO	not regulate	not regulated			

15. Regulatory information

International Inventories

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

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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

E Corrosive material



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

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