


SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Identifier: Soda Ash
Other Means of Identification: Sodium Carbonate
Product Family: Calcium Sequester
Recommended Use: Drilling Fluids Additive
Supplier: Bri-Chem Supply Ltd.
27075 Acheson Road
Acheson, AB T7X 6B1
Phone Number: 780-962-9490
Emergency Phone: CHEMTREC 1-800-424-9300, 24/7

Section 2: HAZARD(S) IDENTIFICATION

Classification: Eye Irritation – Category 2A
Label Elements: 
Signal Word: Warning
Hazard Statement(s): Causes serious eye irritation.
Precautionary Statement(s)
Prevention: Wash hands thoroughly after handling. Wear eye protection/face protection.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, if eye irritation persists: Get medical advice/attention.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Sodium carbonate	497-19-8	100		

Section 4: FIRST-AID MEASURES

First-Aid Measures

Inhalation: Move to fresh air. Seek medical attention if respiratory irritation or distress occurs.
Skin Contact: Immediately wash with plenty of water then, gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If skin irritation occurs, get medical advice

SAFETY DATA SHEET

	or attention. Remove and wash contaminated clothing before re-use.
Eye Contact:	Check for and remove contact lenses. Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists, get medical advice or attention.
Ingestion:	Rinse mouth with water and afterwards drink plenty of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious or convulsing victim. Get medical attention, if adverse symptoms develop.
Most Important Symptoms and Effects, Acute and Delayed	
If in Eyes:	May cause moderate to severe irritation.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from The Product: Non-combustible; substance itself does not burn but may decompose on heating to produce corrosive and/or toxic fumes. Hazardous combustion products: Fumes of sodium oxide.

Special Protective Equipment and Precautions for Fire-fighters: Not sensitive to mechanical impact or static discharge. Wear a full-body encapsulating chemical protective suit with positive pressure SCBA.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions: It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up: Cover with plastic to prevent spreading. Sweep up or vacuum up spillage. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Use with adequate ventilation. Avoid generating dusts. Wear personal protective equipment to avoid direct contact with this chemical. Keep away from incompatible products (acids). Ensure that eyewash stations and safety showers are close to workstation locations. Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product; avoid skin and eye contact and wash

SAFETY DATA SHEET

hands after handling. Do not eat, drink or smoke when handling.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated place away from acids. Store in original container. Keep container tightly closed and properly labeled. Ensure that eyewash stations and safety showers are close to workstation locations.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies. Local nuisance dust standards apply.

Appropriate Engineering Controls: Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Eye wash facility should be provided in storage and general work area.

Individual Protection Measures

Eye/Face Protection: Do not get in eyes. Wear chemical safety goggles. Ensure an eyewash station is in work area.

Skin Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Natural rubber, neoprene gloves are recommended. Ensure emergency shower is available.

Respiratory Protection: Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance: White granules

Odour: Odourless

pH: 11.4

Melting Point/Freezing Point: 851 °C (1564°F) (melting); Not available (freezing)

Initial Boiling Point/Range: Not applicable

Evaporation Rate: Not applicable

Vapour Pressure: Not applicable

Vapour Density (Air=1): Not available

Relative Density (Water=1): Not available

Solubility: Soluble in water; Not applicable (in other liquids)

Partition Coefficient, n-Octanol/Water (Log Kow): Not applicable

Decomposition Temperature: 400°C (752°F)

SAFETY DATA SHEET

Viscosity:	Not available (kinematic)
Other Information	
Physical State:	Solid
Molecular Formula:	Na ₂ CO ₃
Molecular Weight:	105.99
Bulk Density:	700 – 1120 kg/m ³ (44-70 lb/ft ³)
Surface Tension:	Not applicable

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Normally stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Exposure to air or moisture over prolonged periods.
Incompatible Materials:	Powdered aluminum. Corrosive to aluminum. Not corrosive to animal skin or carbon steel.
Hazardous Decomposition Products:	Sodium oxides

Section 11: TOXICOLOGICAL INFORMATION

No known chronic toxicity effect.

Acute Toxicity

LC50 Inhalation Guinea Pig:	800 mg/m ³
LD50 Oral Rat:	2,800 mg/kg
LD50 Dermal Rabbit:	>2,000 mg/kg
Skin Corrosion/Irritation:	Repeated exposure may cause skin dryness and cracking. Wash thoroughly after handling. Non-irritating to the skin.
Serious Eye Damage/Irritation:	CORROSIVE. EYE IRRITANT. May cause moderate to severe irritation. Severely irritating to the eyes (rabbit).
STOT (Specific Target Organ Toxicity) - Single Exposure	
Inhalation:	Inhalation of dust in high concentration may cause irritation of respiratory system.
STOT (Specific Target Organ Toxicity) - Repeated Exposure:	No known effect
Respiratory and/or Skin Sensitization:	Patch test on human volunteers did not demonstrate sensitization properties.
Carcinogenicity:	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

SAFETY DATA SHEET

No information was located for: Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

EC50 (Nitzschia): 242 mg/L (120hr)

LC50 (Lepomis macrochirus): 300 mg/L (96h)

LC50 (Pimephales Promelas): 310-1220 mg/L (96h)

EC50 (Daphnia): 265 mg/L (48h)

Persistence and Degradability: Biodegradability does not pertain to inorganic substances.

Bioaccumulative Potential: Does not bioaccumulate.

Mobility in Soil: Dissociates into ions.

Other Adverse Effects: None known

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with federal, provincial/state and local regulations. Wherever possible, recycling is preferred to disposal or incineration. Clean container with water. Dispose of rinse water in accordance with local and national guidelines.

Section 14: TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations.

Special Precautions: Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class D2A Class E

D2A – Very Toxic; E – Corrosive

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

SAFETY DATA SHEET

Section 16: OTHER INFORMATION

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

Revision Date: August 12, 2024