

SODA ASH

SECTION 1. IDENTIFICATION

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|--------------------------------------|--|
| Product Identifier | SODA ASH |
| Other Means of Identification | Sodium Carbonate |
| Product Family | Calcium Sequester |
| Recommended Use | Drilling Fluid Additive. |
| Supplier Identifier | Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com |
| Emergency Phone No. | ChemTrec, (800) 424-9300, 24/7 |

SECTION 2. HAZARD 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 |
|------------------|----------|-----|-------------------|
| 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

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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 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 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

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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

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| 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) |
| 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

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No known chronic toxicity effect.

Acute Toxicity

LC50 Inhalation Guinea Pig: 800 mg/m³

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).

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 (120 hr)

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

IC50 (Pimephales promelas): 310-1220 mg/L (96 hr)

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

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

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Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class D2B



Class E

D2B - 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.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 0** **Instability - 0**

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

Date of Preparation September 24, 2015

Disclaimer

This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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