

SODA ASH

SECTION 1. IDENTIFICATION

Product Identifier SODA ASH
Other Means of Identification Sodium Carbonate, washing soda, sal soda, and soda crystals
Recommended Use Drilling fluids, cementing additive.
Restrictions on Use None
Initial Supplier Identifier Integrity Chemical Solutions Inc.
 205 Crystal Shores Drive
 Okotoks, Alberta
 T1S 2L1
Emergency Telephone Number 403.988.7695

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.
Other Hazards None listed.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers
Sodium Carbonate	497-19-8	100%	Soda ash	Washing soda, sal soda, and soda crystals

SECTION 4. 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 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	Use extinguishing agent suitable for surrounding fire.
Extinguishing Media Unsuitable	None listed
Extinguishing Media 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 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

Control Parameters

Notes 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

Appearance	White granules
Odour	Odourless
Odour Threshold	None
pH	11.4
Melting Point and Freezing Point	851 °C (1564°F) (melting); Not available (freezing)
Initial Boiling Point and Boiling Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limit	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable

(air = 1) Relative Density (water = 1)	Not available
Solubility in Water	Soluble
Solubility in Other Liquids	No
Partition Coefficient, n-Octanol / Water (Log Kow)	Not applicable
Auto-ignition Temperature	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	Light (0.45-0.7) Dense (0.9-1.2)
Surface tension	Not applicable

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

No known chronic toxicity effect.

Acute Toxicity

LC50	800 mg/m ³
LD50 (oral)	2,800 mg/kg
LD50 (dermal)	>2,000 mg/kg

Notes

Skin Corrosion / Irritation	Repeated exposure may cause skin dryness and cracking. Wash thoroughly after handling. Non-irritating to the skin.
Serious Eye Damage /	CORROSIVE. EYE IRRITANT. May cause moderate to severe irritation. Severely

Irritation	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 *(section heading must appear; all content is optional)*

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 *(section heading must appear; all content is optional)*

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.
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SECTION 14. TRANSPORT INFORMATION *(section heading must appear; all content is optional)*

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 *(section heading must appear; all content is optional)*

**Safety, Health and
Environmental
Regulations
Canada**

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

SECTION 16. OTHER INFORMATION

**Date of Latest
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