

Safety Data Sheet



Energy Services Group, Inc.
A CNR Company

Sodium Carbonate – Soda Ash

1. Product and Company Identification

Product Name	Sodium Carbonate
Other Product Name(s)	Soda Ash, Washing Soda
Product Use	Ceramics, chemical reagents, detergents, soaps, glass containers, auto glass, flat glass, electroplating, metal cleaning, paper coating, water softening, enameling, and other general chemical uses.
Manufacturer	Energy Services Group, Inc. 2726 Lovington Highway Hobbs, NM 88240 (575) 392-4905
Emergency Telephone Numbers	817-244-9700 or 806-752-6731 1-800-424-9300 (USA/Canada CHEMTREC)

2. Hazards Identification

Emergency Overview: A white crystalline granular solid that can irritate skin, eyes and respiratory tract. Not flammable.

OSHA Regulatory Status	Hazardous
WHMIS Regulatory Status	Hazardous
OSHA Classification	Eye corrosion/irritation 2A
OSHA Signal Word	WARNING
OSHA Hazard Statements	Causes serious eye irritation.
OSHA Precautionary Statements	Wear protective gloves and safety glasses with side shields. Wash thoroughly after handling. If on skin, wash with plenty of water. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs or eye irritation persists, get medical attention. Store in a well ventilated place. Keep container tightly closed. Dispose of container in accordance with Federal and local regulations.
OSHA Label Symbols	The symbol is a red diamond with a thick border, containing a black exclamation mark in the center.
Other Hazards Not Specified by OSHA	None

** Note: Label designed to meet OSHA label requirements and may contain additional phrases.

Potential Health Effects:

Skin	Can cause mild skin irritation.
Eyes	Causes eye irritation.
Ingestions	Low toxicity. May cause discomfort. In rare cases may cause irritation or burns to digestive tract.
Inhalation	May cause irritation if inhaled
Chronic Effects	None

Ingredients found on established carcinogen lists:

Ingredient	NTP Status	IARC Statue	OSHA List
No ingredients listed in this section	---	---	---

3. Composition / Information on Ingredients

Chemical Name	CAS #	EINECS #	Wt. %
Sodium carbonate	497-19-8	207-838-8	99 – 100

4. First Aid Measures

Skin	Wash with plenty of water. Wash contaminated clothing before reuse. Seek medical attention if skin irritation occurs.
Eyes	Rinse eyes cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Ingestions	Remove to fresh air.
Inhalation	If you feel unwell, contact a doctor or poison control center.
Advice to Physician	Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media:	Any media suitable for surrounding fire.
Fire/Explosion Hazards:	None indicated
Fire Fighting Procedures:	Wear normal firefighting gear suitable for surrounding fire. Self-contained respiratory production may be required.
Flammable Limits:	None
Flash Point	Not flammable
Auto ignition Temperature:	None
Hazardous Combustion Products:	Produces carbon dioxide if heated above 1832 °F (1000 °C)

6. Accidental Release Measures

Personal Precautions:	Wear proper personal protective equipment indicated in Section 8.
Containment:	Not normally required as this is a solid material not normally mobile.
Clean Up:	Sweep up and place into container for reuse and/or disposal.
Notification Requirements:	None normally required.

7. Handling and Storage

Handling:	Wear proper personal protective equipment indicated in Section 8. Wash hands before eating or drinking.
Storage:	Should be stored in a dry location. Keep packages tightly closed to minimize dust formation. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Engineering Controls:	Use local exhaust to keep airborne level below safe exposure guidelines listed below.
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Personal Protective Equipment:

Eyes and Face:	Wear safety glasses or chemical dust goggles to avoid accidental eye contact.
Respiratory:	Not required for properly ventilated areas. Otherwise use a NIOSH approved dust respirator.
Hands, Arms, and Body:	Not normally required. Use work glove when handling product transfers or if skin is already irritated. Use rubber or neoprene gloves for handling product solutions.
Other	Safety shower and an eyewash should be available for emergency exposures.

Exposure Guidelines:

Ingredient	ACGIH TLW	ACGIH STEL	OSHA PEL	OSHA STEL	California PEL
Sodium carbonate Handle as particulates not otherwise regulated	3 mg/m ³ respirable dust 10 mg/m ³ inhalable dust	None	15 mg/m ³ total dust 5 mg/m ³ respirable dust	None	10 mg/m ³ total dust 5 mg/m ³ respirable dust

9. Physical and Chemical Properties

Appearance & Physical State	White, crystalline, granular solid
Odor:	None
Odor Threshold:	None
pH (1% solution)	11.4 (1% solution at 68 °F)
Specific Gravity:	2.533
Bulk Density	55 – 65 lbs/ft ³
Initial Boiling Point & Range:	Not applicable
Melting Point /Freezing Point:	1563 °F (851 °C)
Evaporation Rate:	Not applicable
Percent Volatile:	None
Solubility in Water	16.3% at 73 °F (22.8 °C)
Vapor Density:	Not determined
Vapor Pressure:	Not determined
Upper/ Lower Flammable Limits:	None
Flash Point	None
Auto ignition Temperature:	Not flammable
Flammability (solid, gas)	Not flammable
Octanol/water partition coefficient	Not determined
Decomposition temperature	Not determined
Viscosity	Solid – Not applicable

10. Stability and Reactivity

Stability:	Normally stable
Conditions to Avoid:	Keep Soda Ash away from aluminum powder, sulfuric acid, fluorine, phosphorous pentoxide, ammonia, silver nitrate, and molten lithium.
Materials to avoid	May react with strong acids. May form caustic soda in the presence of hydrated lime and moisture.
Polymerization:	Will not occur.
Hazardous Decomposition Products	Soda Ash decomposes at temperatures above 1000 °C, releasing carbon dioxide gas (CO ₂). Carbon dioxide is an asphyxiant and may affect respiration rate or interfere with breathing. The sodium oxide residue sublimates at 1275 °C, forming vapors and mists of caustic soda on contact with moisture or water.

11. Toxicological Information

Eye:	Causes serious eye irritation.
Skin:	LD ₅₀ (dermal, rabbit) > 2000 mg/kg. Can cause mild irritation
Oral:	LD ₅₀ (oral, rat) – 2800 mg/kg
Inhalation:	The LC ₅₀ for inhalation are 800, 1200 and 2300 mg/m ³ for guinea pig, mice and rat respectively
Chronic:	Not considered carcinogenic or a reproductive hazard

12. Ecological Information

Acute ecotoxicity:	Fishes, <i>Lepomis macrochirus</i> , LC ₅₀ , 96 h, 300 mg/l - Crustaceans, <i>Ceriodaphnia dubia</i> , EC ₅₀ , 48 h, 200 - 227 mg/l
Chronic ecotoxicity:	Not determined
Other Information	Not considered to bioaccumulate or to be persistent in the environment.

13. Disposal Considerations

RCRA Status	Not a hazardous waste if discarded
Disposal Method:	Conform to Federal, State and Local regulations. Small amounts may be disposed of in municipal landfills. Larger quantities (tonnage amounts) need to be sent to approved facilities.

14. Transportation Considerations

DOT Proper Shipping Name:	Not regulated for transport
DOT Primary Hazard Class	Not applicable
DOT UN / NA Number:	Not applicable
DOT Packing Group	Not applicable
TDG (Canada)	Not regulated
IMDG (International water)	Not regulated
ICAO (Air transport)	Not regulated

15. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA)

TSCA Inventory Status:	Listed on TSCA Chemical Inventory
Other TSCA Issues:	None

SARA Title III/CERCLA

Ingredients with "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs).

Ingredient	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
No ingredients listed in this section	---	---

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SARA 311 Hazard Class:	Immediate
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SARA 313 Toxic Chemicals:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percent are found in Section 2.

Ingredient	Comment
No ingredients listed in this section	---

State Right-To-Know

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

Ingredient	Weight %	Comment
No ingredients listed in this section	---	Not listed on California Proposition 65.

Additional Regulatory Information:	Not listed in Clean Water Act or in Safe Drinking Water Act,
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CANADA:

WHMIS Classification:	D2B
WHMIS Ingredient Disclosure List	Sodium carbonate is listed.
DSL Status (Domestic substances list)	Listed on DSL

Ingredients for this product also found on the chemical inventories of Australia, China, Korea, European Union, Japan and the Philippines.

16. Other Information

- Unless otherwise indicated, this materials is not intended for human consumption and is for industrial use only.
- Keep out of the reach of children.

Issue Date:	May 25, 2015
Changes from previous version:	• Minor editorial changes and format changes to meet the GHS requirements of the revised 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

National Fire Protection Assoc. (NFPA) Classification:

4 = Severe; 3 = Serious; 2 = Moderate; 1 = Slight, 0 = Minimal

Health	2
Flammability	0
Reactivity	0

Hazardous Materials Information Systems (HMIS):

4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant

Health	2
Flammability	0

Revision: May 25, 2015

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees