SDS #: 497-19-8 Revision date: 2015-04-30 Format: NA Version 5.01



# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier	
Product Name	Soda Ash
Other means of identification	
Product Code(s)	497-19-8
Synonyms	Sodium carbonate, anhydrous; Carbonic acid, disodium salt; Disodium carbonate
Chemical Family	Alkali salt
Recommended use of the chemical	
Recommended Use:	Glass manufacture , Personal care, Detergent, Water treatment chemical, Chemical processing
Restrictions on Use:	See section 16 for more information
<u>Manufacturer Address</u>	Tronox Alkali Wyoming Corporation 1735 Market Street Philadelphia, PA 19103 Tel: +1 877-362-2248 or +1 215-299-6904 www.tronox.com
Emergency telephone number	1 307 / 872 2452 (Plant - Green River, WY) 1 303/ 389-1409 (Medical - U.S Call Collect) 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

#### **Classification**

#### **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2

#### GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

# Hazard Statements

Warning

H319 - Causes serious eye irritation



#### Precautionary Statements - Prevention P264 - Wash face, hands and any exposed skin thoroughly after handling P280 - Wear eye protection/ face protection

Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/ attention

#### Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

#### Other Information

May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Formula Alkali salt. Na<sub>2</sub>CO<sub>3</sub>

Chemical name	CAS-No	Weight %
Sodium carbonate	497-19-8	100

Synonyms are provided in Section 1.

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.
Page 2/7	

Ingestion	Never give anything by mouth to an unconscious person Get medical attention if symptoms occur
Most important symptoms and effects, both acute and delayed	Causes serious eye damage / eye irritation.
Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire.
Specific Hazards Arising from the Chemical	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes
Hazardous Combustion Products	Fumes of sodium oxide. Carbon oxides (COx).
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 pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
	6. ACCIDENTAL RELEASE MEASURES
Personal Precautions	Avoid dust formation. Sweep up to prevent slipping hazard.
Other	For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
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	Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.
	7. HANDLING AND STORAGE
Handling	Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.
Storage	Store in original container. Keep in properly labeled containers. Keep container tightly closed.
Incompatible products	Aluminium. Powdered aluminum. Acids
8. EX	POSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

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

Engineering measures	Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Individual protection measures, si	uch as personal protective equipment
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Wear suitable protective clothing. Protective shoes or boots.
Hand Protection	Nitrile rubber, Neoprene gloves
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
General information	These recommendations apply to the product as supplied

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Granules
Physical State	Solid
Color	White
Odor	odorless
Odor threshold	Not applicable
рН	11.4 (1% solution in water)
Melting point/freezing point	851 °C
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	No information available
Specific gravity	2.52
Water solubility	212.5 g/L @ 20 °C
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	400 °C
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	Non-oxidizing
Molecular weight	105.99
Bulk density	0.86 - 1.12 g/cm <sup>3</sup> (Dense grades) 0.70 - 0.90 g/cm <sup>3</sup> (Light Grades)
K <sub>st</sub>	0 bar m/s

## **10. STABILITY AND REACTIVITY**

Reactivity

None under normal use conditions.

**Chemical Stability** 

Stable. Decomposes by reaction with strong acid.

Hazardous polymerization	Hazardous polymerization does not occur.
--------------------------	--

Conditions to avoid	Exposure to air or moisture over prolonged periods.
---------------------	---

Incompatible materials Aluminium. Powdered aluminum. Acids.

Hazardous Decomposition Products Sodium oxides. Carbon oxides (COx).

# **11. TOXICOLOGICAL INFORMATION**

#### Product Information

LD50 Oral	2,800 mg/kg (rat)
LD50 Dermal	> 2,000 mg/kg (rabbit)
LC50 Inhalation	2.3 mg/L (rat)
Eye Contact	Irritating to eyes.
Skin Contact	Non-irritating
Sensitization	Patch test on human volunteers did not demonstrate sensitization properties.

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity	No known effect.
Mutagenicity	No information available
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

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 degradab	Biouegraua	Biodegradability does not pertain to inorganic substances.				
Bioaccumulation Mobility	Does not b Dissociates					
Bioaccumulation Mobility Other Adverse Effects		s into ions.				

Waste disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.

**Contaminated Packaging** 

Dispose of in accordance with local regulations.

# **14. TRANSPORT INFORMATION**

DOT	NOT REGULATED
<u>TDG</u>	NOT REGULATED
ICAO/IATA	NOT REGULATED
IMDG/IMO	NOT REGULATED

## **15. REGULATORY INFORMATION**

# 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

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **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

# US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

#### International Inventories

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Sodium carbonate 497-19-8 (100)	Х	X	X	Х	X	Х	X	Х

Moderate risk, Grade 2

#### **WHMIS Hazard Class**

D2B - Toxic materials, Eye irritation Class E : Corrosive to aluminum. Not corrosive to animal skin or carbon steel.





# **16. OTHER INFORMATION**

NFPA	Health Hazards	2	Flammability	0	Instability 0	Special Hazards -
HMIS	Health Hazards	2	Flammability	0	Physical hazard 0	Personal Protection
NFPA/HMIS Ratings Leg	jend Seve	ere = 4; \$	Serious = 3; Mo	derate = 2;	Slight = 1; Minimal =	)

#### **Product Certifications**

This product meets the chemical testing specifications defined in the Food Chemicals Codex (FCC), 8th Edition.

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium carbonate, anhydrous is 150 mg/L under NSF/ANSI Standard 60.







# American Water Works Association

Revision date: Revision note 2015-04-30 Minor change

#### Disclaimer

Tronox Limited believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Tronox Limited, Tronox Limited expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

**Tronox Limited** 

Tronox Logo - Trademark of Tronox Limited

© 2015 Tronox Limited. All Rights Reserved. End of Safety Data Sheet