

## SAFETY DATA SHEET

Preparation Date: 01/19/2015

Revision Date: 10/3/2018

Revision Number: G2

### 1. IDENTIFICATION

**Product identifier**

**Product code:** S1221  
**Product Name:** SODIUM CARBONATE, ANHYDROUS, BIOTECHGRADE

**Other means of identification**

**Synonyms:** Crystal Carbonate; Disodium Carbonate; Sal Soda; Soda Ash; Washing Soda; Carbonic Acid, disodium salt; Bisodium carbonate; Calcined soda; Carbonato de sodio (Spanish); Carbonate de sodium (French)

**CAS #:** 497-19-8  
**RTECS #** VZ4050000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** In manufacture of sodium salts, glass, soap; for washing wool, textiles, etc.; in bleaching linen, cotton; general cleanser; in water softening; in photography; as a reagent in analytical chemistry; in aluminum production; in petroleum refining; sealing ponds from leakage; component of cleaners and detergents; catalyst in coal refining; source of soda as a fluxing agent in glass manufacturing.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

**Label elements**

**Warning**

**Hazard statements**

**Product code:** S1221

**Product name:** SODIUM CARBONATE, ANHYDROUS, BIOTECHGRADE

1 / 12

Causes serious eye irritation  
May cause respiratory irritation



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Causes mild skin irritation  
May be harmful if swallowed  
Reacts with water to evolve heat

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - 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.  
If skin irritation occurs: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Sodium Carbonate, Anhydrous	497-19-8	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:**

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:**

Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:**

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

**Product code:** S1221

**Product name:** SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE

**2 / 12**

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes eye irritation  
Eye contact may result in redness or pain  
Mild skin irritation  
Irritating to respiratory system

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** No information available.

**Specific hazards:** The product is not flammable.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment 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, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Hygroscopic.

**Incompatible Materials:**

Acids  
Fluorine  
Fluoride  
Lithium  
Phosphorus pentoxide  
Moisture  
2,4,6-trinitrotoluene  
Ammonia

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Carbonate,	497-19-8	None	None	None	None

**Product code:** S1221

**Product name:** SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE

4 / 12

Anhydrous					
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### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Carbonate, Anhydrous	497-19-8	None	None	None	None

### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium Carbonate, Anhydrous	497-19-8	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

##### Eye protection:

Goggles or Safety glasses with side-shields.

##### Skin and body protection:

Long sleeved clothing  
Chemical resistant apron  
Gloves

##### Respiratory protection:

Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

##### Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state:

Solid

#### Appearance:

Crystals. Powder.

#### Color:

White.

#### Odor:

Odorless.

#### Taste

Alkaline.

#### Formula:

Na<sub>2</sub>CO<sub>3</sub>

#### Molecular/Formula weight (g/mole):

105.99

#### Flammability:

No information available

#### Flashpoint (°C/°F):

No information available.

#### Flash Point Tested according to:

Not available

#### Autoignition Temperature (°C/°F):

No information available

#### Lower Explosion Limit (%):

No information available

#### Upper Explosion Limit (%):

Product code: S1221

Product name: SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE

5 / 12

No information available	<b>Melting point/range(°C/°F):</b> 851.0°C/1563.8°F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> 2.532
<b>Specific gravity:</b> No information available	<b>pH:</b> 11.5	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in Glycerol Soluble in hot water Slightly soluble in cold water Insoluble in Acetone	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids  
 Hygroscopic. It absorbs moisture from the air  
 Decomposition by acids with effervescence (release of CO<sub>2</sub>)  
 Combines/reacts with water with evolution of heat  
 Sodium carbonate applied to red hot aluminum can cause an explosion  
 Sodium carbonate can ignite and burn fiercely in contact with fluoride  
 Sodium carbonate can react violently with F<sub>2</sub>, Li, 2,4,6-trinitrotoluene

### Chemical stability

**Stability:** Stable at normal conditions. Hygroscopic.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Sodium Carbonate begins to decompose at 400 deg. C to evolve carbon dioxide gas. Avoid dust formation. Exposure to moisture. Exposure to moist air. Incompatible materials.

**Incompatible Materials:** Acids  
 Fluorine  
 Fluoride  
 Lithium  
 Phosphorus pentoxide  
 Moisture  
 2,4,6-trinitrotoluene  
 Ammonia

**Hazardous decomposition products:** Carbon oxides. Sodium oxides.

### Other Information

**Corrosivity:** No information available

**Product code:** S1221

**Product name:** SODIUM  
 CARBONATE, ANHYDROUS,  
 BIOTECHGRADE

6 / 12

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**

Eyes. Ingestion. Inhalation. Skin.

### Acute Toxicity

### Component Information

Sodium Carbonate, Anhydrous	
CAS-No.	497-19-8

**LD50/oral/rat** = 4090 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 2300 mg/m<sup>3</sup> Inhalation LC50 Rat 2 h  
**LC50/inhalation/mouse** = 1200 mg/m<sup>3</sup> 2 hr  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 4090 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = 2300 mg/m<sup>3</sup> (2-hr)

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = 1200 mg/m<sup>3</sup> 2 hr

### Symptoms

**Skin Contact:** Mild skin irritation.

**Eye Contact:** Causes serious eye irritation. Causes conjunctival irritation.

**Inhalation** May cause irritation of respiratory tract. Symptoms may include coughing and shortness of breath.

**Product code:** S1221

**Product name:** SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE

7 / 12

**Ingestion** May be harmful if swallowed. Acute sodium carbonate ingestion can cause irritation of the digestive tract resulting in gastroenteritis, nausea, vomiting, diarrhea, thirst, abdominal pain depending on concentration and amount ingested. May also affect the cardiovascular system.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Carbonate, Anhydrous	497-19-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Sodium Carbonate, Anhydrous - 497-19-8*

**Freshwater Algae Data:** 242 mg/L EC50 Nitzschia 120 h

**Freshwater Fish Species Data:** 300 mg/L LC50 Lepomis macrochirus 96 h static 1 310 - 1220 mg/L LC50 Pimephales promelas 96 h static 1

**Water Flea Data:** 265 mg/L EC50 Daphnia magna 48 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Product code:** S1221

**Product name:** SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE



**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Carbonate, Anhydrous	497-19-8	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Class:** No information available  
**Packing group:** No information available  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** No Information available  
**Symbol(s):** No information available  
**Description:** No information available

#### TDG (Canada)

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant:** No Information available  
**Description:** No information available

#### ADR

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

#### IMO / IMDG

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**Product code:** S1221

**Product name:** SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE

9 / 12

**Marine Pollutant** No information available

**RID**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**ICAO**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**IATA**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**ERG Code:** No information available  
**Special Provisions** No information available

**15. REGULATORY INFORMATION**

**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Carbonate, Anhydrous	497-19-8	PresentACTIV E	Present KE-31380	Present	Present (1)-164	Present	Present	Present 207-838-8

**U.S. Regulations**

*Sodium Carbonate, Anhydrous*

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1742

**FDA - 21 CFR - Total Food Additives** 163.110, 163.111, 163.112, 172.824, 173.310, 184.1742, 73.85

- List Sourced from EAFUS

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sodium Carbonate, Anhydrous	497-19-8	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable	Section 302 Extremely Hazardous Substances	Section 302 Extremely Hazardous Substances and	Section 313 - Chemical Category	Section 313 - Reporting de minimis

**Product code:** S1221

**Product name:** SODIUM CARBONATE, ANHYDROUS, BIOTECHGRADE

**10 / 12**

		Quantities	and TPQs	RQs		
Sodium Carbonate, Anhydrous	497-19-8	None	None	None	None	None

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Carbonate, Anhydrous	497-19-8	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Sodium Carbonate, Anhydrous  
497-19-8 ( 100 )

WHMIS 2015 Hazard Classification  
Corrosive to Metals - Category 1: H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Components	WHMIS Ingredient Disclosure List -
Sodium Carbonate, Anhydrous	1 %

### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium Carbonate, Anhydrous	497-19-8	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sodium Carbonate, Anhydrous	497-19-8	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Carbonate, Anhydrous	497-19-8	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Carbonate, Anhydrous	497-19-8	Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.011-005-00-2

### EU - CLP (1272/2008)

### **R-phrase(s)**

R36 - Irritating to eyes.

### **S -phrase(s)**

S 2 - Keep out of the reach of children.  
S22 - Do not breathe dust.

**Product code:** S1221

**Product name:** SODIUM  
CARBONATE, ANHYDROUS,  
BIOTECHGRADE

11 / 12

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sodium Carbonate, Anhydrous	497-19-8	Xi; R36	No information	S: (2)-22-26

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Xi - Irritant.

Xi



## 16. OTHER INFORMATION

**Preparation Date:** 01/19/2015  
**Revision Date:** 10/3/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**