

SAFETY DATA SHEET

1. Identification

Product identifier SODIUM CARBONATE, ANHYDROUS, GRANULAR, REAGENT (ACS)

Other means of identification

Product code 3594

Synonym(s) SODA ASH

Recommended use professional, scientific and technical activities: other professional, scientific and technical activities

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name GFS Chemicals, Inc.
Address P.O. Box 245

Powell

OH 43065 US

Telephone Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@qfschemicals.com

Emergency phone Emergency Assistance Chemtrec 800-424-9300

number

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Serious eye damage/eye irritation Category 2A

OSHA hazard(s) Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. Harmful if inhaled.

Precautionary statement

Prevention Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume. Wash thoroughly after

handling. Wear eye/face protection.

Response Get medical attention if irritation develops or persists. If inhaled: Remove person to fresh air and

keep comfortable for breathing. 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.

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Substances

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
SODIUM CARBONATE	SODA ASH	497-19-8	100

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Oxygen

> or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you

feel unwell.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Irritation of eyes and mucous membranes.

Eye contact 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.

Ingestion Rinse mouth thoroughly. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Provide general supportive measures and treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately

Water. Use extinguishing agent suitable for type of surrounding fire.

(show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

None known.

Special protective equipment

and precautions for

firefighters

Wear suitable protective equipment.

Fire-fighting

equipment/instructions

In the event of fire, cool tanks with water spray.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up Should not be released into the environment. This product is miscible in water. Stop leak if you can do so without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. For waste disposal, see section 13 of the MSDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Avoid dust formation. Do not breathe dust from this material. In case of insufficient ventilation, wear suitable respiratory equipment. Guard against dust accumulation of this material. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Avoid release to the environment. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Avoid dust formation. Guard against dust accumulation of this material. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight.

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8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes

that may be generated during handling or thermal processing. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Do not get this material in contact with eyes. Wear chemical goggles. Use tight fitting goggles if

dust is generated.

Skin protection

Hand protection Wear protective gloves.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection No personal respiratory protective equipment normally required. Wear respirator if there is dust

formation. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at

levels exceeding the exposure limits.

Thermal hazards Not available.

General hygiene considerations

Do not breathe dust. Avoid contact with eves. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Granular. **Physical state** Solid. Form Powder. Color White. Odor Odorless. **Odor threshold** Not available. pН 12 (1 M solution) Melting point/freezing point 1563.8 °F (851 °C)

Initial boiling point and

boiling range

Not available.

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

upper (%)

Not available.

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor density Not available. Relative density Not available. Solubility(ies) soluble

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Not available.

Not available.

Decomposition temperature

752 °F (400 °C) Evolves carbon dioxide gas.

In contact with fluorine is decomp @ ordinary temp with incandescence.

When heated to decomp, emits toxic fumes of Na2O.

Viscosity Not available.

Other information

Density 2.53 g/cm3 estimated

Molecular formula Na2CO3 Molecular weight 105.99 g/mol

Specific gravity 2.53

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10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid spread of dust. Reacts violently with strong acids. This product may react with oxidizing

agents. Do not mix with other chemicals. Hygroscopic, protect from moisture and moist air.

Incompatible materials Oxidizing agents. Acids.

Hazardous decomposition

products

Product

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion Not available. Inhalation Harmful if inhaled.

Skin contact Based on available data, the classification criteria are not met.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Species

Information on toxicological effects

Acute toxicity Harmful if inhaled.

SODIUM CARBONATE (CAS 497-19-8) **Acute** Inhalation LC50 0.8 mg/l, 2 Hours Guinea pig Mouse 1.2 mg/l, 2 Hours 2.3 mg/l, 2 Hours Rat Oral LD50 Rat 4090 mg/kg Other

LD50 Mouse 2210 mg/kg

116.6 mg/kg, 30 Days

Test Results

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Causes serious eye irritation. Dust in the eyes will cause irritation.

Respiratory sensitization Based on available data, the classification criteria are not met. Skin sensitization Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Specific target organ toxicity

- single exposure

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

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^{*} Estimates for product may be based on additional component data not shown.

Product Species Test Results

SODIUM CARBONATE (CAS 497-19-8)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 156.6 - 298.9 mg/l, 48 hours

Fish LC50 Bluegill (Lepomis macrochirus) 300 mg/l, 96 hours

Persistence and degradabilityNone known.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dilute waste in

large quantities of water and flush into sewer connected to wastewater treatment system in compliance with applicable laws and regulations. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulationsNot available. **Hazardous waste code**Not regulated.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312
Hazardous chemical

No

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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

Issue date June-07-2013

Version # Λ1

Further information Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. The information given is designed only as a quidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified

in the text.

Revision Information Product and Company Identification: Product Codes

Composition / Information on Ingredients: Disclosure Overrides

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