

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

## 1. Identification

**Product identifier:** Sodium Carbonate

### Other means of identification

**Product No.:** 3602, 3604, 3605, 3606, 3642, 4923, 7521, 7527, 7528, BS18, LP08, 29704, 29420

### Recommended restrictions

**Recommended use:** For Laboratory, Research or Manufacturing Use.

**Restrictions on use:** Not determined.

### Details of the supplier of the safety data sheet

Company Name: Avantor Performance Materials, LLC  
Address: 100 Matsonford Rd, Suite 200  
Radnor, PA 19087

Telephone: Customer Service: 855-282-6867

Contact Person: Product Information Compliance  
E-mail: info@avantormaterials.com

### Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Acute toxicity (Inhalation - dust and mist)      | Category 4              |
| Skin Corrosion/Irritation                        | Category 2              |
| Serious Eye Damage/Eye Irritation                | Category 2A             |
| Specific Target Organ Toxicity - Single Exposure | Category 3 <sup>1</sup> |

#### Target Organs

1. Respiratory tract irritation.

#### Unknown toxicity - Health

|                                          |       |
|------------------------------------------|-------|
| Acute toxicity, inhalation, vapor        | 100 % |
| Acute toxicity, inhalation, dust or mist | 100 % |

### Label Elements

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:** Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

**Precautionary Statements**

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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 ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

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

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

#### Substances

| Chemical Identity | CAS number | Content in percent (%)* |
|-------------------|------------|-------------------------|
| Sodium carbonate  | 497-19-8   | 99 - 100%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion:** Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** Harmful if inhaled. Irritating to eyes, respiratory system and skin.

**Hazards:** None known.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

### 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** None known.

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** Inform authorities if large amounts are involved.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

### 7. Handling and storage

**Precautions for safe handling:** Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities:**

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

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

#### Appropriate Engineering Controls

No data available.

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

#### General information:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

#### Eyel/face protection:

Wear safety glasses with side shields (or goggles).

#### Skin Protection

##### Hand Protection:

Chemical resistant gloves

##### Other:

Wear suitable protective clothing.

#### Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.

#### Hygiene measures:

Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

### Appearance

#### Physical state:

Solid

#### Form:

Powder

#### Color:

White

#### Odor:

Odorless

#### Odor threshold:

No data available.

#### pH:

11.4 - 11.7 (25 °C)

#### Melting point/freezing point:

851 °C

#### Initial boiling point and boiling range:

(Decomposes)

#### Flash Point:

Not applicable

#### Evaporation rate:

No data available.

#### Flammability (solid, gas):

No data available.

### Upper/lower limit on flammability or explosive limits

#### Flammability limit - upper (%):

No data available.

#### Flammability limit - lower (%):

No data available.

#### Explosive limit - upper (%):

No data available.

#### Explosive limit - lower (%):

No data available.

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| <b>Vapor pressure:</b>                          | Estimated < 0.0000001 kPa (25 °C) |
| <b>Vapor density:</b>                           | No data available.                |
| <b>Density:</b>                                 | 2.53 g/ml (20 °C)                 |
| <b>Relative density:</b>                        | 2.52 - 2.53 (20 °C)               |
| <b>Solubility(ies)</b>                          |                                   |
| <b>Solubility in water:</b>                     | 404 g/l (20 °C)                   |
| <b>Solubility (other):</b>                      | glycerol: Soluble                 |
| <b>Partition coefficient (n-octanol/water):</b> | No data available.                |
| <b>Auto-ignition temperature:</b>               | No data available.                |
| <b>Decomposition temperature:</b>               | No data available.                |
| <b>Viscosity:</b>                               | No data available.                |

#### Other information

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Bulk density:</b>     | 1,240 kg/m <sup>3</sup>                            |
| <b>Molecular weight:</b> | 105.99 g/mol (CH <sub>2</sub> O <sub>3</sub> .2Na) |

### 10. Stability and reactivity

|                                            |                                                             |
|--------------------------------------------|-------------------------------------------------------------|
| <b>Reactivity:</b>                         | No dangerous reaction known under conditions of normal use. |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.                 |
| <b>Possibility of hazardous reactions:</b> | Hazardous polymerization does not occur.                    |
| <b>Conditions to avoid:</b>                | Excessive heat. Moisture.                                   |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents. Strong acids. Aluminum.            |
| <b>Hazardous Decomposition Products:</b>   | Sodium oxides Carbon monoxide Carbon dioxide                |

### 11. Toxicological information

#### Information on likely routes of exposure

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Inhalation:</b>   | Irritating to respiratory system. |
| <b>Skin Contact:</b> | Causes skin irritation.           |
| <b>Eye contact:</b>  | Causes serious eye irritation.    |
| <b>Ingestion:</b>    | May be harmful if swallowed.      |

#### Information on toxicological effects

##### Acute toxicity (list all possible routes of exposure)

|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| <b>Oral</b>       |                                                                  |
| <b>Product:</b>   | LD 50 (Rat): 2,800 - 4,090 mg/kg                                 |
| <b>Dermal</b>     |                                                                  |
| <b>Product:</b>   | LD 50 (Rabbit) > 2,000 mg/kg                                     |
| <b>Inhalation</b> |                                                                  |
| <b>Product:</b>   | LC 50 (Guinea Pig, 2 h) 0.8 mg/l<br>LC 50 (Mouse, 2 h): 1.2 mg/l |

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** Causes skin irritation.

**Serious Eye Damage/Eye Irritation**

**Product:** Causes serious eye irritation.

**Respiratory or Skin Sensitization**

**Product:** Not a skin sensitizer.

**Carcinogenicity**

**Product:** This substance has no evidence of carcinogenic properties.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

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

No carcinogenic components identified

**Germ Cell Mutagenicity**
**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No components toxic to reproduction

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** None known.

**Target Organs**

Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

**Aspiration Hazard**

**Product:** Not classified

**Other effects:** None known.

|                                   |
|-----------------------------------|
| <b>12. Ecological information</b> |
|-----------------------------------|

**Ecotoxicity:**
**Acute hazards to the aquatic environment:**

**Fish**

**Product:** LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 300 mg/l

**Aquatic Invertebrates**

**Product:** EC 50 (Water flea (*Ceriodaphnia dubia*), 48 h): 156.6 mg/l

**Chronic hazards to the aquatic environment:**
**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**
**Biodegradation**

**Product:** Expected to be readily biodegradable.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**
**Bioconcentration Factor (BCF)**

**Product:** The product is not bioaccumulating.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:**

The product is water soluble and may spread in water systems.

**Other adverse effects:**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

|                                    |
|------------------------------------|
| <b>13. Disposal considerations</b> |
|------------------------------------|

**Disposal instructions:**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:**

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

|                                  |
|----------------------------------|
| <b>14. Transport information</b> |
|----------------------------------|

**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

## 15. Regulatory information

### US Federal Regulations

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

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### Hazard categories

Acute toxicity (any route of exposure)  
Skin Corrosion or Irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

##### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

##### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

##### SARA 311/312 Hazardous Chemical

|                          |                                    |
|--------------------------|------------------------------------|
| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
| Sodium carbonate         | 10000 lbs.                         |

##### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

### US State Regulations

#### US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

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

No ingredient regulated by NJ Right-to-Know Law present.

#### US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

#### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

### International regulations

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

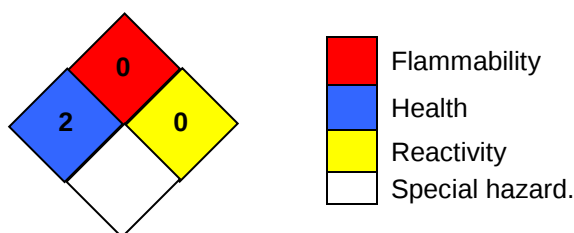
Not applicable

**Inventory Status:**

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Australia AICS:                          | On or in compliance with the inventory |
| Canada DSL Inventory List:               | On or in compliance with the inventory |
| EINECS, ELINCS or NLP:                   | On or in compliance with the inventory |
| Japan (ENCS) List:                       | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory |
| Philippines PICCS:                       | On or in compliance with the inventory |
| US TSCA Inventory:                       | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Mexico INSQ:                             | On or in compliance with the inventory |
| Taiwan Chemical Substance Inventory:     | On or in compliance with the inventory |

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

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 10-10-2018

**Revision Information:** Not relevant.

**Version #:** 1.3

**Source of information:** Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.

**Further Information:** No data available.

**Disclaimer:**

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