

# SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Sodium Carbonate, Anhydrous, Powder

**Product No.:** 3602-07, 3602-01, 3602-QM, 3602-97, 3602-05, 3602-R

**Manufacturer:**

Avantor Performance Materials, Inc.  
3477 Corporate Parkway, Suite 200  
Center Valley, PA 18034  
U.S.A.

**Telephone:**

Customer Service: 855-282-6867

**Contact Person:** Environmental Health & Safety

**e-mail:** info@avantormaterials.com

**Emergency telephone:**

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

## 2 HAZARDS IDENTIFICATION

**Emergency Overview:**

**Appearance:**

**Color:**

White

**Form :**

Powder

**Odor:**

Odorless

**Signal words**

WARNING!

**Potential Health Effects:**

**General**

Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin.

**Inhalation:**

Harmful if inhaled. Dust may irritate respiratory system.

**Skin:**

Causes skin irritation.

**Eye:**

Causes eye irritation.

**Ingestion:**

Harmful if swallowed. Irritating. May cause nausea, stomach pain and vomiting.

**Chronic Effects:**

None known.

**Routes of Exposure:**

Skin and/or eye contact., Inhalation, Ingestion

**OSHA Regulatory Status**

This product is hazardous according to OSHA 29CFR 1910.1200.

**Environment:**

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.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**General information:**

**Hazardous Component(s):**

| Chemical name    | CAS-No.  | Concentration |
|------------------|----------|---------------|
| 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

|                                |                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General:</b>                | Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.                                                                                                                                                           |
| <b>Inhalation:</b>             | Move to fresh air. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention.                                                                                                                  |
| <b>Skin contact:</b>           | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. |
| <b>Eye contact:</b>            | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.                            |
| <b>Ingestion:</b>              | Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.          |
| <b>Notes to the physician:</b> |                                                                                                                                                                                                                                                                     |
| <b>Treatment:</b>              | Symptoms may be delayed.                                                                                                                                                                                                                                            |

### 5 FIRE-FIGHTING MEASURES

|                                              |                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media:</b>                  | The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.                                                              |
| <b>Unsuitable extinguishing media:</b>       | None known.                                                                                                                                                      |
| <b>Unusual Fire &amp; Explosion Hazards:</b> | None known.                                                                                                                                                      |
| <b>Special Fire Fighting Procedures:</b>     | Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.                                              |
| <b>Protective Measures:</b>                  | 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

|                              |                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions:</b> | 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 MSDS for Personal Protective Equipment.

- Environmental precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
- Spill Cleanup Methods:** Shovel up and place in a container for salvage or disposal. Clean surface thoroughly to remove residual contamination.
- Notification Procedures:** Inform authorities if large amounts are involved.

## 7 HANDLING AND STORAGE

- 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 MSDS for Personal Protective Equipment.
- Storage:** Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Store locked up.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure limits** None of the components have assigned exposure limits.
- Protective Measures:** 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.
- Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.
- Eye protection:** Wear safety glasses with side shields (or goggles).
- Skin and Body Protection:** Wear suitable protective clothing and gloves.
- Hygiene measures:** Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with skin.

## 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) Aqueous solution
- Melting Point:** 851 °C
- Boiling Point:** Decomposes

|                                                 |                    |
|-------------------------------------------------|--------------------|
| <b>Flash Point:</b>                             | Not applicable     |
| <b>Evaporation Rate:</b>                        | No data available. |
| <b>Flammability (solid, gas):</b>               | No data available. |
| <b>Flammability Limit - Upper (%)—:</b>         | No data available. |
| <b>Flammability Limit - Lower (%)—:</b>         | No data available. |
| <b>Vapor pressure:</b>                          | No data available. |
| <b>Vapor density (air=1):</b>                   | No data available. |
| <b>Relative density:</b>                        | 2.53               |
| <b>Solubility(ies)</b>                          |                    |
| <b>Solubility in Water:</b>                     | Soluble            |
| <b>Solubility (other):</b>                      | No data available. |
| <b>Partition coefficient (n-octanol/water):</b> | No data available. |
| <b>Autoignition Temperature:</b>                | No data available. |
| <b>Decomposition Temperature:</b>               | No data available. |
| <b>Viscosity:</b>                               | No data available. |
| <b>Explosive properties:</b>                    | No data available. |
| <b>Oxidizing properties:</b>                    | No data available. |

## 10 STABILITY AND REACTIVITY

|                                            |                                                  |
|--------------------------------------------|--------------------------------------------------|
| <b>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

|                                                |                                                                     |
|------------------------------------------------|---------------------------------------------------------------------|
| <b>Product:</b>                                |                                                                     |
| <b>Acute Toxicity (Oral):</b>                  | LD 50 (Rat): 4,090 mg/kg                                            |
| <b>Acute Toxicity (Inhalation):</b>            | LC 50 (Mouse, 2 h): 1.2 mg/l<br>LC 50 (Guinea pig, 2 h): 0.8 mg/l   |
| <b>Inhalation:</b>                             | Dust may irritate throat and respiratory system and cause coughing. |
| <b>Ingestion:</b>                              | May be harmful if swallowed.                                        |
| <b>Skin corrosion/irritation:</b>              | Causes skin irritation.                                             |
| <b>Serious eye damage/eye irritation:</b>      | Dust in the eyes will cause irritation.                             |
| <b>Respiratory sensitizer/Skin sensitizer:</b> | Not a skin sensitizer.                                              |
| <b>Carcinogenicity:</b>                        | This substance has no evidence of carcinogenic properties.          |

**Mutagenesis:** No mutagenic components identified

**Reproductive toxicity:** No components toxic to reproduction

**Other Effects:** None known.

## 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** No negative effects on the aquatic environment are known.

**Product:**

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

**Chronic Toxicity(Fish):** No data available.

**Acute toxicity(Aquatic invertebrates):** EC 50 (Water flea (*Ceriodaphnia dubia*), 48 h): 156.6 mg/l

**Chronic Toxicity(Aquatic invertebrates):** No data available.

**Acute toxicity(Aquatic plants):** No data available.

**Persistence and degradability:** Expected to be readily biodegradable.

**Bioaccumulative potential:** The product is not bioaccumulating.

**Mobility:** The product is water soluble and may spread in water systems.

## 13 DISPOSAL CONSIDERATIONS

**Disposal Methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

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

## 14 TRANSPORT INFORMATION

**DOT**

Not regulated.

**IMDG - International Maritime Dangerous Goods Code**

Not regulated.

**IATA**

Not regulated.

## 15 REGULATORY INFORMATION

### Inventory Status:

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Australia AICS:                          | On or in compliance with the inventory |
| Canada DSL Inventory List:               | On or in compliance with the inventory |
| EU EINECS List:                          | On or in compliance with the inventory |
| EU ELINCS List:                          | Not in compliance with the inventory.  |
| Japan (ENCS) List:                       | On or in compliance with the inventory |
| EU No Longer Polymers List:              | Not in compliance with the inventory.  |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory |
| Canada NDSL Inventory:                   | Not 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 |
| Switzerland Consolidated Inventory:      | Not in compliance with the inventory.  |
| Japan ISHL Listing:                      | On or in compliance with the inventory |
| Japan Pharmacopoeia Listing:             | Not in compliance with the inventory.  |

### US Regulations

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

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

None

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

None

### SARA Title III

#### • Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

None

None

#### • Section 311/312 (40 CFR 370):

☒ Acute (Immediate) ☐ Chronic (Delayed) ☐ Fire ☐ Reactive ☐ Pressure Generating

#### • Section 313 Toxic Release Inventory (40 CFR 372):

None present or none present in regulated quantities.

### State Regulations

#### • California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

No ingredient regulated by CA Prop 65 present.

#### • Massachusetts Right-To-Know List:

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

#### • New Jersey Right-To-Know List:

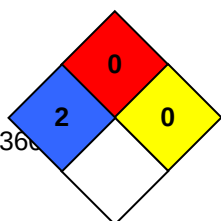
SODIUM CARBONATE Listed

#### • Pennsylvania Right-To-Know List:

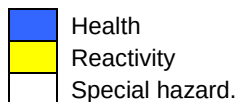
SODIUM CARBONATE Listed

## 16 OTHER INFORMATION

### NFPA Hazard ID



■ Flammability



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Revision Information:**

**Issue Date:** 12-07-2012

**SDS No:**

**Disclaimer:**

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