

Revision Date: 19.11.2020

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier: Sodium Carbonate

Other means of identification

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

H660, H680, H690, LP08, 29704, 29420

Recommended use and restriction on use

Recommended use: For Laboratory, Research or Manufacturing Use.

Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200

Radnor, PA 19087

Telephone:

Customer Service: 855-282-6867

Fax: Contact Person:

E-mail:

Product Information Compliance info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

# 2. Hazard identification

# **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Inhalation - dust and Category 4

mist)

Serious Eye Damage/Eye Irritation Category 2A

# **Unknown toxicity - Health**

Acute toxicity, inhalation, dust 100 %

or mist

#### **Label Elements**

# **Hazard Symbol:**





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Signal Word: Warning

**Hazard Statement:** Harmful if inhaled.

Causes serious eye irritation.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after

handling. Wear protective gloves/eye protection/face protection. Use only

outdoors or in a well-ventilated area.

**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.

**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.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	Content in percent (%)*
Sodium carbonate		497-19-8	99,50 - 100,00%

<sup>\*</sup> 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

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



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# 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.



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## 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.

**Eye/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 (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: Estimated < 0,0000001 kPa (25 °C)

Vapor density:No data available.Density:2,53 g/ml (20 °C)Relative density:2,52 - 2,53 (20 °C)

Solubility(ies)

Solubility in water: 404 g/l (20 °C)
Solubility (other): glycerol: Soluble

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.



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Viscosity: No data available.

Other information

Bulk density: 1.240 kg/m3

Molecular weight: 105,99 g/mol (Na<sub>2</sub>CO<sub>3</sub>)

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

**Conditions to avoid:** Excessive heat. Moisture.

**Incompatible Materials:** Strong oxidizing agents. Strong acids. Aluminum.

**Hazardous Decomposition** 

**Products:** 

Sodium oxides. Carbon monoxide. Carbon dioxide.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** Harmful if inhaled.

**Skin Contact:** Prolonged skin contact may cause temporary irritation.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May be harmful if swallowed.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 2.800 - 4.090 mg/kg

**Dermal** 

**Product:** LD 50 (Rabbit): > 2.000 mg/kg

Inhalation

**Product:** LC 50 (Rat): 2.300 mg/m3

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** Prolonged skin contact may cause temporary irritation.

Serious Eye Damage/Eye Irritation

**Product:** Causes serious eye irritation.

#### **Respiratory or Skin Sensitization**



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**Product:** Not a skin nor a respiratory 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

#### **ACGIH Carcinogen List:**

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:
None known.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** None known.

**Aspiration Hazard** 

Product: Not classified

Other effects: None known.

# 12. Ecological information

# **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.



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## **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.

# 13. Disposal considerations

**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.

## 14. Transport information

#### **TDG**

Not regulated.

#### **IMDG**

Not regulated.

#### IATA

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

## 15. Regulatory information

#### Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

#### Export Control List (CEPA 1999, Schedule 3)

Not Regulated

# **National Pollutant Release Inventory (NPRI)**

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional

**Reporting Requirements** 

NPRI PT5 Not Regulated

# Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated



On or in compliance with the inventory

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#### **Greenhouse Gases**

Not Regulated

# **Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

#### **Precursor Control Regulations**

Not Regulated

## 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 China Inv. Existing Chemical Substances: Japan (ENCS) List: On or in compliance with the inventory On or in compliance with the inventory Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Mexico INSQ: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory On or in compliance with the inventory Philippines PICCS:

Taiwan Chemical Substance Inventory:

US TSCA Inventory:

EINECS, ELINCS or NLP:

On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory

# 16. Other information

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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.

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