# Safety Data Sheet

*according to the (US) Hazard Communication Standard (29 CFR 1910.1200)*

| *Revision date: 15.06.2023* | *Version: 6.2* | *Print date: 15.06.2023* |
|---|---|---|

## SECTION 1: Identification

### Product identifier

| | |
|---|---|
| Trade name/designation: | Sodium chloride BIOTECHNOLOGY GRADE |
| Product No.: | 0241 |
| Synonyms: | none |
| CAS No.: | 7647-14-5 |

### Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| Recommended use | For Further Manufacturing Use Only |
| Uses advised against | Not for Human or Animal Drug Use |

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

### Supplier

#### *VWR International LLC*

| | |
|---|---|
| Street | 100 Matsonford Road Radnor Corporate Center, Building One, Suite 200 P. O. Box 6660 |
| Postal code/City | Radnor, PA 19087 |
| Telephone | +1-800-932-5000 toll-free within US/Canada<br>+1-610-386-1700 |
| Telefax | +1-610-728-2103 |

### Emergency phone number

| | |
|---|---|
| Telephone | +1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA) |

### Preparation Information

VWR International - Product Information Compliance

| | |
|---|---|
| E-mail | SDS@avantorsciences.com |

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

This substance is classified as not hazardous according to regulation 29 CFR 1910.1200 (OSHA HCS).

## 2.2 Label elements

### Labelling in accordance with 29 CFR 1910.1200 (OSHA HCS)

According to regulation 29 CFR 1910.1200 (OSHA HCS) the product does not have to be labelled.

**Hazard(s) not otherwise classified (HNOC)**
none

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

| | |
|---|---|
| Substance name | Sodium Chloride |
| Molecular formula | NaCl |
| Molecular weight | 58.44 g/mol |
| CAS No. | 7647-14-5 |

# SECTION 4: First aid measures

## 4.1 Description of first aid measures

### General information

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing. Wash contaminated clothing before reuse. Do not leave affected person unattended.

### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Obtain medical attention if symptoms appear.

### In case of skin contact

Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Obtain medical attention if symptoms appear.

### In case of ingestion

Rinse mouth thoroughly with water. Call a doctor if you feel unwell.

### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

No known symptoms to date.

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

No special information on medical attention and special treatment available.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.
Water.
Foam.
Alcohol resistant foam.
Dry extinguishing powder.

**Extinguishing media which must not be used for safety reasons**

Full water jet.

### 5.2 Specific hazards arising from the chemical

In case of fire may be liberated:
Hydrogen chloride (HCl)
Sodium oxides

### 5.3 Advice for firefighters

Do not breathe gas/fume/vapor/spray.
Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Do not breathe dust. Use a dust mask if there is a lot of dust. Remove victim out of the danger area. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide adequate ventilation.

### 6.2 Environmental precautions

No special environmental measures are necessary.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Rinse affected areas with water. Dispose according to legislation.

### 6.4 Reference to other sections

Personal protection equipment (PPE): see section 8 Disposal information: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling
No special measures are necessary.
Measures to prevent fire, aerosol and dust generation
No special measures are necessary.
Measures required to protect the environment
No special measures are necessary.

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

### 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Store between 15 °C and 30 °C.
Keep container tightly closed and in a well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

**Appropriate engineering controls**
Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Personal protection equipment (PPE)**
Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

*Eye/face protection*
Eye glasses with side protection

*Skin protection*
Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

| By short-term hand contact | |
|---|---|
| Suitable material: | NBR (Nitrile rubber) |
| Thickness of the glove material: | 0,12 mm |
| Breakthrough time | > 480 min |

| By long-term hand contact | |
|---|---|
| Suitable material: | NBR (Nitrile rubber) |
| Thickness of the glove material: | 0,38 mm |
| Breakthrough time | > 480 min |

*Respiratory protection*
Usually no personal respirative protection necessary.

*Additional information*
Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

*Environmental exposure controls*
no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | |
| Physical state: | solid |
| Color: | white |
| Odor: | no data available |
| Odor threshold: | no data available |

### Safety relevant basic data

| | |
|---|---|
| pH: | 6-9 (50 g/l; H2O; 20 °C) |
| Melting point/freezing point: | 801 °C |
| Initial boiling point and boiling range: | 1413 °C (1013 hPa) |
| Flash point: | no data available |
| Flammability: | not applicable |
| Lower and upper explosion limit | |
| Lower explosion limit: | no data available |
| Upper explosion limit: | no data available |
| Vapor pressure: | no data available |
| Vapor density: | no data available |
| Density and/or relative density | |
| Density: | 2.16 g/cm³ (20 °C) |
| Solubility(ies) | |
| Water solubility: | 358 g/l (20 °C) |
| Partition coefficient: n-octanol/water: | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition temperature: | not applicable |
| Viscosity | |
| Kinematic viscosity: | no data available |
| Dynamic viscosity: | no data available |
| Particle characteristics: | no nanoform |

### 9.2 Other information

| | |
|---|---|
| Evaporation rate: | no data available |
| Explosive properties: | no data available |
| Oxidising properties: | not applicable |
| Bulk density: | no data available |
| Refraction index: | no data available |
| Dissociation constant: | no data available |
| Surface tension: | no data available |
| Henry's Law Constant: | no data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is non-reactive under normal conditions.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

No further relevant information available.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

### 10.7 Additional information

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute effects**
*Acute oral toxicity*:
LD50: > 3000 mg/kg - Rat - (RTECS)

*Acute dermal toxicity*:
LD50: < 10000 mg/kg - Rabbit - (RTECS)

*Acute inhalation toxicity*:
LC50: > 42 g/m³ - Rat - (National Library of Medicine ChemID Plus (NLM CIP))

**Irritant and corrosive effects:**
*Primary irritation to the skin:*
not applicable

*Irritation to eyes:*
not applicable

*Irritation to respiratory tract:*
not applicable

**Respiratory or skin sensitization**
In case of skin contact: not sensitizing
In case of inhalation: not sensitizing

**STOT-single exposure**
not applicable

**STOT-repeated exposure**
not applicable

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not applicable

**Other adverse effects**

no data available

**Additional information**

no data available

## SECTION 12: Ecological information

### 12.1 Ecotoxicity

**Fish toxicity:**

LC50: 7400 mg/l (96 h) - Adelman, I.R., and L.L. Smith Jr. 1976. Standard Test Fish Development. Part I. Fathead Minnows (Pimephales promelas) and Goldfish (Carassius auratus) as Standard Fish in Bioassays and Their Reaction to Potential Reference Toxicants. :77 p.

**Daphnia toxicity**:

EC50: 2120 mg/l (48 h) - Warne, M.S.J., and A.D. Schifko 1999. Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. Ecotoxicol.Environ.Saf. 44(2):196-206

LC50: 4660 mg/l (48 h) - Cowgill, U.M. 1987. Critical Analysis of Factors Affecting the Sensitivity of Zooplankton and the Reproducibility of Toxicity Test Results. Water Res. 21(12):1453-1462

**Algae toxicity:**

no data available

**Bacteria toxicity:**

no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

### 12.4 Mobility in soil:

no data available

### 12.5 Results of PBT/vPvB assessment

not applicable

### 12.6 Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to the environment.

### 12.7 Other adverse effects

no data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Waste requires monitoring.

Waste code product: no data available

**Appropriate disposal / Package**

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

**Additional information**

no data available

## SECTION 14: Transport information

### Land transport (DOT)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

### National regulations

**Toxic Substances Control Act (TSCA)**

Listed

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

Not listed.

**SARA 313 Components**
Not listed.

## US State Regulations

**Massachusetts Right To Know Components**
Not listed.

**Pennsylvania Right To Know Components**
Not listed.

**New Jersey Right To Know Components**
Not listed.

**California Prop. 65 Components**

Not listed.

## SECTION 16: Other information

**Abbreviations and acronyms**

ACGIH - American Conference of Governmental Industrial Hygiensts
DOT - Department of Transportation
IARC - International Agency for Research on Cancer
IATA-DGR - International Air Transport Association-Dangerous Goods Regulations
ICAO-TI - International Civil Aviation Organization-Technical Instructions
IMDG - International Maritime Code for Dangerous Goods
LTV - Long Term Value
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety & Health Administration
PBT - Persistent, Bioaccumulative and Toxic
PEL - Permissible Exposure Limit
STV - Short Term Value
SVHC - Substances of Very High Concern
TDG - Transport of Dangerous Goods
TLV - Threshold Limit Value
vPvB - very Persistent, very Bioaccumulative

**Key literature references and sources for data**

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

| Revision date | Version | Print date |
|---|---|---|
| 15.06.2023 | 6.2 | 15.06.2023 |

**Additional information**

| | |
|---|---|
| Indication of changes | Review and revision of Sections 4, 5, 6, 7 and 10.<br><br>If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com). |

*The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.*