1 Identification

- Product identifier
  - Trade name: Sodium carbonate
- Article number: 30181
- CAS Number: 497-19-8
- EC number: 207-838-8
- Index number: 011-005-00-2
- Application of the substance / the mixture Laboratory chemicals

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: SERVA Electrophoresis GmbH
    Carl-Benz-Str. 7
    D-69115 Heidelberg
    Tel.: +49 6221 13840-0
    FAX: +49 6221 13840-10
    msds.info@serva.de
  - Information department: Product Safety department
  - Emergency telephone number:
    Medical Emergency Information in case of poisoning:
    Poison Information Center Mainz - Phone: +49 (0) 6131 19240
    (advisory service in German or English language)

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS07
  - Eye Irrit. 2A  H319 Causes serious eye irritation.

- Label elements
  - GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms GHS07
  - Signal word Warning
  - Hazard statements
    Causes serious eye irritation.
  - Precautionary statements
    Wash thoroughly after handling.
    Wear eye protection / face protection.
    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.

- NFPA ratings (scale 0 - 4)
  - Health = 2
  - Fire = 0
  - Reactivity = 0

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Trade name: Sodium carbonate

HMIS-ratings (scale 0 - 4)
- Health = 2
- Fire = 0
- Reactivity = 0

Other hazards

Results of PBT and vPvB assessment
- PBT: PBT - assessment not available.
- vPvB: vPvB - assessment not available.

3 Composition/information on ingredients

Chemical characterization: Substances
- CAS No. Description
  - 497-19-8 sodium carbonate
- Identification number(s)
  - EC number: 207-838-8
  - Index number: 011-005-00-2
- Description:
  - Empirical formula: Na₂ CO₃
  - MW: 106.0

4 First-aid measures

Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
  - Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- After eye contact:
  - Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist in case of complaints.
- After swallowing:
  - Wash out mouth. Drink plenty of water and supply fresh air. Seek medical advice if discomfort occurs.
  - Do not induce vomiting!
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
    - No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    - No further relevant information available.

5 Fire-fighting measures

Extinguishing media
- Suitable extinguishing agents:
  - CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
  - In case of fire, the following can be released:
    - Carbon monoxide and carbon dioxide
- Advice for firefighters
  - Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
- Wear protective clothing.

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Trade name: Sodium carbonate

Avoid formation of dust.
Ensure adequate ventilation

- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Pick up mechanically.
  - Dispose contaminated material as waste according to item 13.

**Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Prevent formation of dust.
  - **Information about protection against explosions and fires:** No special measures required.

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

- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Keep receptacle tightly sealed and store in dry conditions.
  - **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Keep away from foodstuffs, beverages and feed.
    - Store protective clothing separately.
    - Immediately remove all soiled and contaminated clothing.
    - Avoid contact with the eyes and skin.
    - Wash hands before breaks and at the end of work.

**Breathing equipment:**
- **Short term filter device:** Filter P2

**Protection of hands:**
The glove material has to be impermeable and resistant to the product/substance/preparation.
Due to missing tests no recommendation to the glove material can be given for the product/substance/preparation/chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Natural rubber, NR
Trade name: Sodium carbonate

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Crystalline powder
  - Color: White
  - Odor: Odorless
- pH-value (100 g/l) at 20 °C (68 °F): 11.5
- Change in condition
  - Melting point/Melting range: 854 °C (1,569.2 °F)
  - Boiling point/Boiling range: Zers. 1600 °C (2,912 °F)
- Flash point: Not applicable.
- Flammability (solid, gaseous): Product is not flammable.
- Danger of explosion: Product does not present an explosion hazard.
- Density at 20 °C (68 °F): 2.53 g/cm³ (21.11285 lbs/gal)
- Bulk density at 20 °C (68 °F): ca. 1100 kg/m³
- Solubility in / Miscibility with
  - Water at 20 °C (68 °F): 220 g/l
- Other information
  - No further relevant information available.

10 Stability and reactivity

- Reactivity
  - No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  - No decomposition if used and stored according to specifications.
  - Decomposition by contact with strong acids
- Possibility of hazardous reactions
  - No further relevant informations available.
- Conditions to avoid
  - moisture
- Incompatible materials:
  - Avoid contact with:
    - Strong acids
    - finely divided aluminium
- Hazardous decomposition products:
  - In case of fire: See Section 5

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - Oral LD50 4090 mg/kg (rat)
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization:
  - No sensitizing effects known.
Trade name: Sodium carbonate

- Additional toxicological information:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer) Substance is not listed.
    - NTP (National Toxicology Program) Substance is not listed.
    - OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential No further relevant information available.
  - Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes:
    Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
    Water hazard class 1 (Assessment by list): slightly hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
    Disposal must be made according to official regulations.
- Uncleaned packagings:
  - Recommendation:
    Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

14 Transport information

- UN-Number
  - DOT, ADR, ADN, IMDG, IATA Void
- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA Void
- Transport hazard class(es)
  - DOT, ADN
    - Class Void
- ADR, IMDG, IATA
  - Class Void
  - Label -
Trade name: Sodium carbonate

- Packing group
  DOT, ADR, IMDG, IATA: Void
- Environmental hazards: Not applicable.
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- Transport/Additional information: Not dangerous according to the above specifications.
- UN "Model Regulation": Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  Section 355 (extremely hazardous substances): Substance is not listed.
  Section 313 (Specific toxic chemical listings): Substance is not listed.
  TSCA (Toxic Substances Control Act): Substance is listed.
  Proposition 65 Substance is not listed.
  Chemicals known to cause cancer: Substance is not listed.
  Chemicals known to cause reproductive toxicity for females: Substance is not listed.
  Chemicals known to cause reproductive toxicity for males: Substance is not listed.
  Chemicals known to cause developmental toxicity: Substance is not listed.
- Cancerogenity categories
  EPA (Environmental Protection Agency) Substance is not listed.
  TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
  NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements
  The substance is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms GHS07
- Signal word Warning
- Hazard statements
  Causes serious eye irritation.
  Precautionary statements
  Wash thoroughly after handling.
  Wear eye protection / face protection.
  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.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Product safety department
- Contact: +49 6221 13840-35
- Date of preparation / last revision 12/10/2018 / 3
- Abbreviations and acronyms:
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  ICAO: International Civil Aviation Organisation
  PBT: persistent, bioaccumulative, toxic substance (REACH)
  vPvB: very persistent, very bioaccumulative substance (REACH)
  REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
  CLP: Regulation on classification, labelling and packaging of substances and mixtures

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Trade name: Sodium carbonate

bw: body weight
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

* Data compared to the previous version altered.