

SAFETY DATA SHEET SODIUM CARBONATE

According to Regulation (EC) No 1907/2006, Annex II, as amended.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|------------------------------|---|
| Product name | SODIUM CARBONATE |
| Chemical name | Sodium carbonate |
| EU REACH registration number | 01-2119485498-19-0012 |
| CAS number | 497-19-8 |
| EU index number | 011-005-00-2 |
| EC number | 207-838-8 |
| Synonyms; trade names | Heavy Soda Ash, Soda Salt, Disodium Carbonate |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|----------------------|---|
| Identified uses | Glass Production, Detergent Production, Chemical Production, Paper Pulp and Paper, Water and Waste Water Treatment, Flue Gas Desulphurization |
| Uses advised against | No specific uses advised against are identified. |

1.3. Details of the supplier of the safety data sheet

| | |
|----------|---|
| Supplier | Kazan Soda Elektrik Üretim A.Ş Mülk Küme Evleri 1. Cadde No:122 Yenikent – Sincan / ANKARA Tel: +90 (312) 969 98 01 www.kazansoda.com |
|----------|---|

1.4. Emergency telephone number

| | |
|---------------------|---|
| Emergency telephone | Kazan Soda Elektrik Üretim A.Ş. : +90 (312) 969 98 01 |
|---------------------|---|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

| | |
|-----------------------|---------------------|
| Physical hazards | Not Classified |
| Health hazards | Eye Irrit. 2 - H319 |
| Environmental hazards | Not Classified |

2.2. Label elements

| | |
|-----------|-----------|
| EC number | 207-838-8 |
|-----------|-----------|

Hazard pictograms



| | |
|-------------------|-------------------------------------|
| Signal word | Warning |
| Hazard statements | H319 Causes serious eye irritation. |

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Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

| | |
|----------------------|---------------------------------|
| Product name | SODIUM CARBONATE |
| Chemical name | Sodium carbonate |
| EU index number | 011-005-00-2 |
| CAS number | 497-19-8 |
| EC number | 207-838-8 |
| Chemical formula | Na ₂ CO ₃ |
| Composition comments | >99.5% |

3.2. Mixtures

| | |
|-------------|-----------------|
| Description | Not applicable. |
|-------------|-----------------|

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|---|
| General information | Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. |
| Inhalation | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. |
| Ingestion | Rinse mouth thoroughly with water. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues. |
| Skin contact | Remove contaminated clothing and rinse skin thoroughly with water. Take off contaminated clothing. |
| Eye contact | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. |

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4.2. Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|--|
| General information | See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. |
| Ingestion | May cause discomfort if swallowed. May cause stomach pain or vomiting. |
| Skin contact | Prolonged contact may cause dryness of the skin. |
| Eye contact | Irritating to eyes. |

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

| | |
|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|-----------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|--|
| Suitable extinguishing media | The product is not flammable. Use foam, carbon dioxide, dry powder or water fog to extinguish. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------|--|
| Specific hazards | None known. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. |

5.3. Advice for firefighters

| | |
|--|---|
| Protective actions during firefighting | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Regular firefighting clothing, such as an open-air compressed breathing apparatus (EN 137), fire-fighting suit (EN469), fire-fighting gloves (EN 659), and fire-fighting boots (HO A29 or A30). |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|---|
| Personal precautions | No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. |
|-----------------------------|---|

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6.2. Environmental precautions

Environmental precautions Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Avoid generation and spreading of dust.
Small Spillages: Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar.
Large Spillages: Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralise with acid. Caution. May generate heat. Following dilution and neutralisation, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in accordance with local regulations. Store away from the following materials: Acids. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ Total dust

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable dust

OSHA = Occupational Safety and Health Administration.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Wear protective gauntlets made of the following material: Butyl rubber. Nitrile rubber.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Wear suitable coveralls to prevent exposure to the skin. Provide eyewash station and safety shower.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. Wear a suitable dust mask. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.

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Environmental exposure controls Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | Granules. Solid. |
| Colour | White. |
| Odour | Odourless. |
| Odour threshold | No information available. |
| pH | pH (diluted solution): 11.4 (1%) |
| Melting point | 851°C/1564°F |
| Initial boiling point and range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | No information available. |
| Vapour pressure | Not applicable. |
| Vapour density | Not applicable. |
| Relative density | 2.509 |
| Bulk density | No information available. |
| Solubility(ies) | 212.5 g/l water @ 20°C |
| Partition coefficient | Not applicable. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | No information available. |
| Viscosity | Not applicable. |
| Explosive properties | Not considered to be explosive. |
| Oxidising properties | There are no chemical groups present in the product that are associated with oxidising properties. |
| Particle characteristics | No information available. |

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Acid anhydrides. Acids. Phenols, cresols.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,800.0

Species Rat

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 2,800.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.
LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.
LC50 800 mg/m³, Inhalation, Pig.
LC50 1200 mg/m³, Inhalation, Mouse
LC50 2300 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation. Rabbit

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

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| | |
|---|--|
| IARC carcinogenicity | None of the ingredients are listed or exempt. |
| Reproductive toxicity | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. |
| Specific target organ toxicity - single exposure | |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |
| Specific target organ toxicity - repeated exposure | |
| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. |
| Aspiration hazard | |
| Aspiration hazard | Not relevant. Solid. |
| General information | Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. |
| Ingestion | May cause discomfort if swallowed. May cause stomach pain or vomiting. |
| Skin contact | Prolonged contact may cause dryness of the skin. |
| Eye contact | Irritating to eyes. |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact |
| Target organs | No specific target organs known. |
| 11.2. Information on other hazards | |
| Information on other hazards | This product does not contain any known or suspected endocrine disruptors. |

SECTION 12: Ecological information

| | |
|---|---|
| Ecotoxicity | Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. |
| 12.1. Toxicity | |
| Toxicity | Based on available data the classification criteria are not met. |
| Acute aquatic toxicity | |
| Acute toxicity - fish | LC ₅₀ , 96 hour: 300 mg/l, Lepomis macrochirus (Bluegill) |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hour: 0.16 mg/l, Daphnia magna |
| 12.2. Persistence and degradability | |
| Persistence and degradability | The product contains only inorganic substances which are not biodegradable. |
| 12.3. Bioaccumulative potential | |
| Bioaccumulative potential | No data available on bioaccumulation. |
| Partition coefficient | Not applicable. |

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12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any endocrine disrupting substance.

12.7. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods This material and its container must be disposed of as hazardous waste. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

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14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.
Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) 2020/878 of 18 June 2020.

Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV No specific authorisations are known for this product.

Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII No specific restrictions on use are known for this product.

Seveso Directive - Control of major accident hazards Not relevant.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

STEL: Short Term Exposure Limits
TWA: Time weighted Average
OSHA: Occupational Safety and Health Administration.
OEL: Occupational Exposure Limit.
EC No: The European Community number
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC50: Lethal Concentration to 50 % of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.

Key literature references and sources for data

Source: European Chemicals Agency, <http://echa.europa.eu/>
This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.



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| | |
|----------------------------------|--|
| Training advice | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| Revision comments | SDS has been revised under the current regulations. |
| Issued by | Büşra Tarakci / CRAD gbf@crad.com.tr Tel.:+90 216 3354600 |
| Revision date | 25/03/2022 |
| Revision | 1.1 |
| Supersedes date | 21/02/2022 |
| SDS number | 5212 |
| Hazard statements in full | H319 Causes serious eye irritation. |