

MATERIAL SAFETY DATA SHEET

SODIUM CARBONATE – CARBONATE DE SODIUM

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

1.1. Product Identifier

Code: Sodium Carbonate - 1kg or 250 gr
Product Name: Sodium Carbonate
IC Color: White, crystals

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

Use of the Substance/Preparation: Basic substance with various uses: used in glass making, ceramics, saponified waxes, water-based waxes, detergents, stain removal, laundry soaps and in the paper and metallurgical industry.

1.3. Details of the Supplier of the Safety Data Sheet

Company: COLOR RARE LTD (Canada) | COLOR-RARE L.L.C. (USA)
Tel/Fax:
Internet: www.colorare.ca | www.colorare.us
Emergency No.:

Canada Contact your local Provincial Poison Centre or 911

<http://www.capcc.ca/>

Ontario: 1-800-268-9017

Quebec: 1-800-463-5060

USA American Association of Poison Control Centers 1-800-222-1222

<http://www.aapcc.org/>

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

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Hazard classification and indication:

Serious Eye Damage/Eye Irritation

Category 2 H319

2.1.2. Directive 67/548/EEC and following amendments and adjustments.

Danger Symbols: Xi (Irritation)
R phrases: R36 Irritating to eyes

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Pictograms:



Signal words:

Warning

Hazard statements

H319 - Causes eye irritation

Precautionary statements

P264 - Wash exposed skin thoroughly after handling
P280 - Wear protective gloves, eye 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
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention

Contains: Sodium Carbonate

SECTION 3: Composition/Information on Ingredients

Sodium Carbonate

CAS-Nr: 497-19-8

EINECS-Nr: 207-838-8

EC-Nr: 011-005-00-2

SECTION 4: First-Aid Measures

General information: Remove contaminated clothes immediately.

EYES: Immediately rinse eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

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SKIN: Remove contaminated clothing immediately. Rinse affected area with large amounts of water until no evidence of product remains. Get medical attention if irritation persists.

INGESTION: Dilution by rinsing the mouth and giving water to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Do not induce vomiting. Contact physician or local poison control center.

INHALATION: Immediately remove from exposure area to fresh air. Contact physician or local poison control center.

NOTE TO PHYSICIAN: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: The product itself does not burn/ is not flammable. Use appropriate extinguishing media for surrounding area.

Unsuitable extinguishing media: Not information available.

5.2. Special hazards arising from the substance or mixture

In case of fire, formation of carbon oxides.

5.3. Advice for firefighters.

GENERAL INFORMATION

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment, and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Provide adequate ventilation. Keep away from sources of ignition. Together with water product causes slippery surfaces. Avoid contact with acids: formation of carbon dioxide gases.

6.2. Environmental precautions

Use water spray if the area is very dusty.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal. Dispose in suitable waste container.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Hygienic measures: Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Wash hands/exposed skin after using the product. Keep away from food and drink.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers in a cool dry area. Store away from excessive heat/ direct sunlight and incompatible substances. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed and clearly labeled containers when not in use. Keep away from acids. The product is non-combustible.

7.3. Specific end use(s).

Information not available.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Parameters to be controlled (DE): none known

Parameters to be controlled - Derived No-Effect Level (DNEL):

10 mg/m³ (worker, inhalation, long-term exposition - local effects).

10 mg/m³ (consumer, inhalation, short-term exposition - local effects)

Predicted No-Effect Concentration (PNEC): none known

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas, in case of dust formation.

Personal protective equipment

Eye Protection: Tightly fitting safety goggles (EN 166). Face-shield.

Hand Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers recommendations	-	Splash protection only
Nitrile rubber			
Neoprene			
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection: Dust mask recommended when very dusty: with particle filter P2.

Environmental Exposure Controls: No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	solid
Colour:	white powder
Odour:	odorless
Odour threshold:	not available.
pH:	11.5 (50 g/l; 20°C)
Melting or freezing point:	1562 °F (850 °C)
Boiling point:	Not available.
Distillation range:	Not available.
Flash point:	Not combustible.
Evaporation Rate:	Not available.
Flammability of solids and gases:	Not available.
Lower flammability limit:	Not available.
Upper flammability limit:	Not available.
Lower explosive limit:	Not available.
Upper explosive limit:	Not available.
Vapour pressure:	Not applicable.
Vapour density:	Not available.
Density:	2.53 g/cm ³ (20°C)
Solubility:	Water: 210 g/l
Partition coefficient: n-octanol/water:	Not available.
Ignition temperature:	Not available.
Decomposition temperature:	> 400°C
Viscosity:	Not available.
Reactive Properties:	Not available.

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VOC (Directive 2004/42/EC):	Not available.
VOC (volatile carbon):	Not available.
Explosive properties:	This product is not explosive.
Oxidizing properties:	not oxidizing
Bulk Density:	800-1000 kg/m ³
Molecular Formula:	Na ₂ CO ₃

SECTION 10: Stability and Reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with acids.

10.4. Conditions to avoid

No further information.

10.5. Incompatible materials.

Strong acids, alkaline earth and heavy metal salts, aluminium, organic nitro-compounds, non-metal oxides / heat, conc. sulfuric acid.

10.6. Hazardous decomposition products.

Formation of carbon dioxide after reaction with acids.

10.7. Additional Information.

The aqueous solution of this product is strongly alkaline. Sodium carbonate binds the water and carbon dioxide from the air.

SECTION 11: Toxicological Information

Acute toxicity

Category	Information
LD50, oral	2800 mg/kg (rat)
LD50, dermal	> 2000 mg/kg (rat); > 2000 mg/kg (rabbit)
LC50, inhalation	2.3 mg/l (2h; rat)
Primary effects : skin	Slight irritant effect. Prolonged skin contact may defat the skin and produce dermatitis
Irritant effect on eyes:	Causes serious eye irritation

Inhalation :	No information available
Ingestion:	No information available
Sensitization:	No information available
Mutagenicity :	No information available
Reproductive toxicity :	No information available
Cancerogenity:	No information available
Teratogenicity :	No information available
Specific target organ toxicity (STOT):	No information available
Additional toxicological information :	This product shows strong alkaline reactions in contact with water / humidity. For this reason, local irritating reactions are possible on skin, eyes and mucous membrane. Product degrades the skin.

SECTION 12: Ecological Information

12.1. Toxicity.

General: Not available.

Fish Toxicity: LC50: 300 mg/l (96h, *Lepomis macrochirus*)

Daphnia Toxicity: EC50: 200 - 227 mg/l (48h, *Ceriodaphnia Dubia*)

12.2. Persistence and degradability.

The persistence and degradability of this product has not been determined.

12.3. Bio accumulative potential.

The bioaccumulation potential of this product has not been determined.

12.4. Mobility in soil.

The mobility of this product (in soil and water) has not been determined.

12.5. Results of PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Water hazard class: 1, slightly hazardous Do not let run into surface waters, waste water or soil.

Behaviour in sewage systems: The product is an inorganic material and thus does not cause a biological oxygen depletion.

Further ecological effects: After neutralization only a relatively low adverse effect of the formed salts is present. The pH value has to be taken into consideration if no neutralisation is carried out. The toxic effect for fish and bacteria is below pH 6 and above pH 9.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods.

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Must not be disposed together with household garbage. Do not let product enter water or sewer systems. If product cannot be reused or recycled, it must be disposed of according to current local regulations.

SECTION 14: Transport Information

NO RESTRICTIONS. This material is not considered as dangerous according to the current provisions on road transport of dangerous goods.

14.1. UN number

ADR, IMDG, IATA

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Information not relevant

SECTION 15: Regulatory Information

Slightly hazardous for water.

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Listed on the Canadian DSL (Domestic Substances List).

SECTION 16: Other Information

The information contained in this document is based on our own knowledge on the date of the current version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The correct and safe use of this product is the responsibility of the user; therefore, users must, comply with the current health and safety laws and regulations. Colorare is not liable for improper use of the product.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
 2. Directive 67/548/EEC and following amendments and adjustments
 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
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11. Patty - Industrial Hygiene and Toxicology
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