



**USQUÍMICA**

SAFETY DATA SHEET FOR CHEMICALS  
MSDS

**LIGHT SODIUM CARBONATE**

REVISION DATE: 5/17/2018

**1. - IDENTIFICATION OF PRODUCT AND COMPANY**

**Product name:** Light Sodium Carbonate (sodium carbonate).

**Internal Code of product identification:** 158.35.7.

**Company name:** USQUÍMICA DO BRASIL LTDA.

**Address:** Rua da Lagoa, 431 - Cumbica - Guarulhos - SP.

**Company Phone:** (11) 3821-7000 (PBX system) - (11) 2481-3355.

**Emergency call numbers:** SUATRANS - COTEC - Environmental Emergency.

DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.

193 - Firefighters.

**Main recommended uses for the substance:** Chemical product used in the glass manufacturing industries, in the chemical industries for the synthesis of inorganic compounds, in the soap and detergent manufacturing , among other applications.

**2. - HAZARDS IDENTIFICATION**


**Substances classification**

Acute toxicity, category 4, Oral. Corrosive/irritation

to skin, Category 1C.

Serious eye damage / eye irritation - Category 1.

**GHS labeling elements, including precautionary phrases:**

LABELING ELEMENTS	DATA
Product identification and supplier emergency phone.	Commercial Name: Light Sodium Carbonate. Synonym: Sodium carbonate, disodium carbonate. Emergency call number: SUATRANS - COTEC - Environmental Emergency. DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
Hazard pictogram.	
Warning words.	<b>ATTENTION</b>
Hazard phrase.	H303 - May be harmful if swallowed. H316- Causes moderate irritation to the skin. H319 - Causes serious eye damage.
Caution Phrases.	P262 - Avoid contact with eyes, skin or clothing. H333 - May be harmful if inhaled. P273 - Avoid to release for the environment. P280 - Use protective gloves/protective clothing/eye protection/face shield. P303+P361+P353 - IN CASE OF SKIN CONTACT ( or with the hair): Remove immediately all contaminated clothing. Wash the skin with water/take a shower. P304+P340+P310 - IN CASE OF INHALATION: Remove the person to a ventilated area and keep the person in a rest position that does not make it difficult to breathe. Please Immediately contact a TOXICOLOGICAL INFORMATION CENTER/physician. P305+P351+P338+P310 - IN CASE OF EYE CONTACT: Rinse thoroughly with water for several minutes. If contact lenses are used, remove them if it is easy. Continue rinsing. Please Immediately contact a TOXICOLOGICAL INFORMATION CENTER/physician. P308+P311 - IN CASE OF exposure or suspected of exposure: Please contact a TOXICOLOGICAL INFORMATION CENTER/physician.



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**Other hazards which do not result in classification:** It has no other hazards.

### 3. - COMPOSITION AND INFORMATION ON THE INGREDIENTS:

**Substance:** Na<sub>2</sub>CO<sub>3</sub> (light Sodium Carbonate).

**Common chemical name or generic name:** Sodium carbonate / Disodium carbonate.

**Chemical Abstract Service (CAS No.):** 497.19.8.

**Impurities that contribute to the hazard:** Not applicable.

### 4. - FIRST AID MEASURES:

**First aid measures:**

**Inhalation:** Remove the victim to an uncontaminated and ventilated area. If you are breathing hard, administering oxygen. Apply resuscitation maneuvers in case of cardiorespiratory arrest. Immediately forward to the nearest hospital.

**Skin contact:** Remove clothing contaminated by the product. Wash the victim's mouth with plenty of water. If irritation persists, seek to physician.

**Eye contact:** Wash at once the eyes under running water for 15 minutes, lifting the eyelids to allow maximum product removal. Refer to the physician.

**Ingestion:** If a large amount of this substance is ingested, see to physician immediately.

**What actions must be avoided:** Do not induce vomiting. If vomiting occurs spontaneously, the victim shall be lying on his side to prevent pulmonary aspiration. Never administer liquids to unconscious victims.

**Brief description of the main symptoms and effects:** May cause irritation of the respiratory system if dust is inhaled. It can cause eye irritation, which must stop after removing the product. In case of prolonged exposure to the product, skin irritation is possible.

**Notes to the physician:** Avoid contact with the product to help the victim. Keep the victim on standing and heated. Do not give anything by mouth to an unconscious person. Symptomatic treatment must include, mainly, supportive measures such as correction of hydro electrolytic, metabolic disorders, as well as respiratory assistance. In case of contact with the skin and/or eyes, do not rub the affected parts.

### 5. - FIRE FIGHTING MEASURES

**Extinguishing measures appropriate:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** water jet.

**Other relevant information:** If water is used, restrict pedestrian and vehicle traffic in areas where there is a risk of slipping.

**Specific hazards:** Burning can generate carbon oxides, sodium / sodium oxides. Carbon oxides, sodium oxides. The product does not burn.

**Additional information:** The danger depends on the burning products and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official local legislation.

**fire fighter protection:** Special protective equipment for personnel deployed for firefighting. Do not stay in the danger zone without self-contained breathing apparatus suitable for breathing independently of the environment. To avoid contact with the skin, keep a safe distance and wear suitable protective clothing. Refresh closed containers exposed to fire with sprayable water. Suppress (throw) with water jets (fog) the gases, vapors and mists. Avoid to contamination of surface water and groundwater with water to firefighting.

### 6. - MEASURES OF CONTROL FOR SPILL OR LEAK

**Personal precautions, protective equipment and emergency procedures:**

**Staff that is not part of the emergency services:** Do not breathe vapor or aerosols. Avoid to contact with the substance. Ensuring adequate ventilation. Evacuating the hazard area, observe emergency procedures. If necessary, consult a specialist.

**For the staff of the emergency department:** Using complete PPE, with PVC protective gloves, safety glasses with side protection and appropriate protective clothing. The material used must be waterproof. In case of large leaks, where exposure is large, it is recommended to use a protective mask with a filter against



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vapors or mists. Spilled product that gets wet or spills of aqueous solutions creates a hazardous condition due to its slippery nature. Avoid to formation of dust.

**Removal ignition sources:** Keeping away from sources of heat and ignition.

**Prevention of inhalation and contact with skin, mucous membranes and eyes:** Please see Section 8, Field: "Appropriate personal protective equipment".

**Precautions to the environment:** Avoid to spilled product reaching watercourses. Collect the spilled product, place the material in appropriate containers for proper final disposal.

**Methods and materials for containment and cleaning:** Use water fog or vapor suppressing foam to reduce dispersion of vapors. Use natural or spill containment barriers. Collect the spilled product and place in proper containers.

**Disposal:** The waste must be disposed in according with the current environmental legislation. Keep chemicals in their original containers. Do not mix with other wastes. The handling of dirty containers must be conducted in the same way as the product itself. An MSDS must be generated from the generated waste.

**Differences in the measures of large and small leaks:** There is no differentiation.

## 7. - HANDLING AND STORAGE

### Handling:

**Technical measures:** Use only in areas provided with adequate exhaust ventilation. Providing the product handling area with emergency shower set and eye wash. Handling must only be done with the indicated PPEs and under safe conditions.

**Prevention of worker's exposure:** Avoid a formation of vapors / aerosol. Working with exhaust / chimney. Do not inhale the substance / mixture. Wear specific PPEs - splashes glasses, face shield, PVC gloves and protective clothing. To avoid inhaling vapors.

Washing after handling and decontaminate PPEs after use. The PPEs must be approved for use only with the respective CAs - Certificates of Approval.

**Precautions and guidelines for safe handling:** Use personal protective equipment (PPE) to avoid direct contact with the product. Handling the product in a well-ventilated place. Forms a slippery layer with water.

### Storage:

**Appropriate:** Keep the container hermetically sealed in a dry, cool and well-ventilated area. Storing in a cool, dry place in unopened original packaging. Avoid to humid, wet and slightly wet conditions, extremes of temperature and sources of ignition.

**To be avoided:** Avoid extreme heat.

### Hygiene measures:

**Appropriate:** Always sanitize the hands before handling any food, as there is a risk of contamination of the food. Contaminated clothing must be washed and sanitized before the use. Keeping gloves free from moisture and decontaminated.

**Inappropriate:** Direct contact with the product and / or its residues.

### Technical measures:

#### Adequate conditions: Bags of 25 and 50 kg:

The floor must be lined with pallets.

The storage is done with the lines 30 cm far approximately from the walls and with a maximum of 20 bags high.

#### Bulk:

It must be done in covered warehouses, obeying the following criteria:

- Only the dense sodium carbonate must be stored in bulk;
- The floor must be dry and clean.

#### Big bags:

It must be waterproof, on pallets, covered with canvas and with a maximum stacking of 01 (one) big bag. **Note:** The quality of the product is directly linked to the condition in which it is being stored, avoiding:

- Humidity;
- Torn packaging;
- Big bag with holes;
- Foreign objects on bulk packaging.



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**Packaging safe materials:**

**Recommended:** Original material.

## 8. - EXPOSURE CONTROLS AND INDIVIDUAL PROTECTION

**Parameters of specific control: Occupational exposure limits:** Occupational exposure limits: Not known.

**Biological indicators:** Not found.

**Other limits and values:** N.A.

**Measures of engineering control:** Environments where there is sodium carbonate handling must present good natural or mechanical ventilation when necessary to disperse suspended particles. Handling the product in a location with good natural or mechanical ventilation, in order to keep the concentration of vapors / dust below the tolerance limit. Promote mechanical ventilation and a direct exhaust system to the outside environment. These measures help to reduce product exposure. It is recommended to make emergency showers and eye washers available in the work area. Engineering control measures are the most effective in reducing product exposure.

**Appropriate personal protective equipment:**

**Eye / face protection**

Protective masks and safety glasses. Wear eye protection equipment tested and approved in accordance with appropriate government regulations.

**Skin protection:**

Handle with gloves. Gloves must be inspected before use. Use a suitable technique for removing the gloves (without touching the outer surface of the glove) to avoid skin contact with the product. Dispose of contaminated gloves after use.

**Respiratory protection:**

Use a semi easy or full face air respirator. Use respirators and components tested and approved by government regulations.

**Thermal hazards:** It does not present thermal hazards

## 9. - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Powder.

**Color:** White.

**Odor and odor limit:** Odorless

**pH:** 11.3 (1.0% solution (mass / volume)).

**Melting point:** 851°C.

**Freezing point:** Not available.

**Initial boiling point and boiling temperature range:** Not available.

**Flash point:** Not available.

**Evaporation rate:** Not available.

**Flammability (solid):** Not available.

**Lower/upper flammability or explosiveness limit:** Not available.

**Vapor pressure:** Not available.

**Vapor density:** Not available.

**Relative density:** 0.4 to 0.6 g / ml.

**Solubility:** Soluble with heat release.

**Partition coefficient - n-octanol / water:** Not available.

**Autoignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not applicable.

## 10. - STABILITY AND REACTIVITY

**Specific conditions: Reactivity:** With water, it releases heat.

**Chemical stability:** Product is stable under normal condition. Reacts violently with acids releasing gas



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carbon dioxide (CO<sub>2</sub>).

**Conditions to be avoided:** Contact with incompatible materials, humidity and high temperatures.

**Materials or incompatible substances:** It is incompatible with fluorine, aluminum, phosphorous pentoxide, acids, zinc, lithium. Reacts violently with acids releasing heat and carbon dioxide (CO<sub>2</sub>).

**Hazardous decomposition products:** Carbon dioxide, carbon monoxide and sodium oxide.

## 11. - TOXICOLOGICAL INFORMATION

**Information according to the different manners of exposure: Acute Toxicity:**

Not available.

**Corrosion/irritation of skin:** Not available.

**Severe ocular lesions/eye irritation:** Not available.

**Respiratory or skin sensitization:** Not available.

**Germ cell mutagenicity:** It has no mutagenic effect.

**Carcinogenicity:** It has no carcinogenic effect.

**Reproductive toxicity:** Not classified for reproductive toxicity.

**Toxicity to organs - specific targets - single exposure:** Not available.

**Toxicity to organs - specific targets - repetitive exposure:** Not available.

**Aspiration hazard:** Not available.

## 12. - ECOLOGICAL INFORMATION

The sodium carbonate is not an aggressive product or poisonous to the environment, however, as it is easy to dissolve, it must be avoided entering the watercourse, as it acts by increasing the local pH.

**Environmental effects, behaviors and impacts of the product:**

**Ecotoxicity:** There is no information available.

**Persistence and degradability:** Soluble.

**Bio accumulative potential:** There is no information available.

**Mobility in soil:** There is no information available.

**Other adverse effects:** Hazard to drinking water supply if allowed due to entry into the soil or aquifers. Harmful effect due to pH change. Although diluted, it forms toxic and corrosive mixtures with water. Additional information about the ecology. Discharge into the environment must be avoided.

## 13. - CONSIDERATION ON THE FINAL DISPOSAL

**Recommended methods for final destination:**

The treatment and disposal of product wastes must be carried out in an appropriate environment, by people trained with the use of special equipment and the recommended PPE's to avoid contact with the product, its vapors or mists. Leaks must be contained and collected for later disposal after neutralization.

**Product:**

Ensure that all Federal, State and local agencies receive appropriate notices of spills and disposal methods. CONAMA Resolution 005/1993, Law No. 12,305, of as August 2, 2010 (National Policy on Solid Waste).

**Waste of products:**

Please consult environmental regulatory agencies for counselling on the acceptable disposal practices. Please contact the relevant local authorities. It can be incinerated when in compliance with local regulations. Or dispose of at an approved chemical waste landfill.

**- Used Package:**

Empty packages must be drained and covered before handling and transport operations. If the packaging is not conveniently washed and decontaminated, it is considered to contain product.

## 14. - TRANSPORT INFORMATION

**National and International Regulations**

**Land:**

Resolution No. 5232 of as Wednesday, December 14, 2016 of the National Land Transport Agency (ANTT), *Approves the Supplementary Instructions to the Regulation for the Land Transportation of Dangerous Products and their modifications.*



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**ONU number:** Product not classified by the Legislation in force on the o transport of dangerous products.

**Appropriate name for shipment:** -

**Risk class:** -

**Risk subclass:** -

**Risk number:** -

**Packaging group:** -

**Waterway:**

DPC - Directorate of Ports and Coasts (Transport in Brazilian waters) Maritime Authority Standards (NORMAM) NORMAM 01 / DPC: Vessels Employed in Open Sea Navigation

**ONU number:** Product not classified by the Legislation in force on the o transport of dangerous products.

**Appropriate name for shipment:** -

**Risk class:** -

**Risk subclass:** -

**Risk number:** -

**Packaging group:** -

**Air:**

ANAC - Civil Aviation National Agency - Resolution No. 129 of as 8 January, 2009

RBAC No. 175 - (BRAZILIAN CIVIL AVIATION REGULATION) - TRANSPORT OF DANGEROUS MATERIALS IN CIVIL AIRCRAFT

IS No. 175-001 - SUPPLEMENTARY INSTRUCTION - IS

ICAO - "International Civil Aviation Organization" - Doc 9284-NA / 905 IATA - "International Air Transport Association"  
Dangerous Goods Regulation (DGR)

**ONU number:** Product not classified by the Legislation in force on the o transport of dangerous products.

**Appropriate name for shipment:** -

**Risk class:** -

**Risk subclass:** -

**Risk number:** -

**Packaging group:** -

## 15. - INFORMATION ON THE REGULATIONS

**Specific regulations for the chemicals:**

Federal Decree No. 2,657 of as July 3, 1998;

Standard ABNT-NBR 14725:2014;

Ordinance No. 229, of as May 24, 2011 - Amends Regulatory Standard No. 26.

## 16. - OTHER INFORMATION

The information in this sheet corresponds to the current status of our knowledge and our product experience and is not exhaustive. Applies to the product under the conditions specified, unless mention otherwise. In case of combinations or mixtures, make sure that no new hazards can appear. This information does not exempt, in any case, the user of the product from respecting the all legislative, regulatory and administrative texts related to the product, safety, hygiene and protection of human and environmental health.

**Bibliographical References:**

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the "Documentation" dos Limites de Exposição Ocupacional (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Brazilian Association of Occupational Hygienists Translation. São Paulo, 2016.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE) Regulatory Standard (NR) No. 7: Programa de controle médico de saúde ocupacional. Brasília, DF. Jun. 1978.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE) Regulatory Standard (NR) No. 15: Atividades e operações insalubres. Brasília, DF. Jun. 1978.

EPA of USA. 2011. EPI Suite™ for Microsoft® Windows, v 4.10. United States: Environmental Protection Agency,



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Washington. 2011. Available at:

< <http://www.epa.gov/oppt/exposure/pubs/episuite.htm>>. Access on: January, 2018

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). 7. rev. United Nations, 2017.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>>. Access on: January, 2018

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access on: January, 2018

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <<http://www.inchem.org/>>. Access on: January, 2018

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.I.]: European chemical Bureau. Available at: <<http://ecb.jrc.ec.europa.eu>>. Access on: January, 2018

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <<http://www.cdc.gov/niosh/>>. Access on: January, 2018

NITE-GHS JAPAN - NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION. Available at: <[http://www.safe.nite.go.jp/english/ghs\\_index.html](http://www.safe.nite.go.jp/english/ghs_index.html)>. Access on: January, 2018

U.S. ENVIRONMENTAL PROTECTION AGENCY. ECOSAR - Ecological Structure-Activity Relationships. Versão 1.11. Available at: <<http://www.epa.gov/oppt/newchems/tools/21ecosar.htm>>. Access on: January, 2018