

According to ISO 11014:2010

First Print Date: 05-Mar-2015 Revision Date: 12-Feb-2020

Version: 1.1.1

# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### **Product Identifier:**

Identification as on the label/Trade name: Rubidium Carbonate.

Molecular weight: 230.945 Chemical formula: Rb2CO3

## Details of the supplier of the Safety Data Sheet:

Neonest AB Storgatan 70C, Solna SE-17152

# **Contact details:**

Sweden

+46-76-219-9731

### **24-hour Emergency Contact:**

**Swedish Poisons Centre** 

Phone: 112 - Ask for Poisons Information, 112 – begär Giftinformation.

## **Other International Contacts:**

CHEMTREC 24-hour: +1-703-741-5500 (US + Worldwide)

NHS: 111 (UK)

Charite: +49 30 450 531 000 (Netherlands)

INTCF: +34 917689800 (Spain) CapTv: +33 1 40 05 48 48 (France)

## **Section 2: Hazards Identification**

### Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

# Hazard classes/Hazard categories: Hazard statement:

Skin Irritant (Category 2) H315
Eye Irritant (Category 2) H319
STOT SE (Category 3) H335

## **Label elements:**

## Hazard pictograms:



**Signal Words:** Warning. **Hazard Statements:** 



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H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

### **Precautionary Statements:**

P264 Wash hands thoroughly after handling.

P261 Avoid breathing dust.

P302 + P352 IF ON SKIN: Wash with plenty water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. **Other hazards:** None known.

# Section 3: Composition/Information on Ingredients

Substance/Mixture: Substance.

Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Molecular	Concentration	Classification EC1272/2008	
	EC-No.	weight	% by weight		
Rubidium carbonate	584-09-8 209-530-9			Skin Irrit. 2	H315
		230.945	>99%	Eye Irrit. 2	H319
				STOT SE 3	H335

For explanation of abbreviations see Section 16.

# **Section 4: First-Aid Measures**

# **Description of first aid measures:**

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# Most important symptoms and effects, both acute and delayed:

None known.

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically. Show this safety data sheet to a physician or emergency room.

## **Section 5: Fire-Fighting Measures**

#### **Extinguisher media:**

Suitable extinguisher media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: None known.

Special hazards arising from the mixture: Carbon oxides, Rubidium oxides.

Advice for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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## **Section 6: Accidental Release Measures**

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

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

## Methods for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Reference to other sections:

Treat recovered material as described in the section "Disposal considerations".

# Section 7: Handling and Storage

## Precautions for safe handling:

**Advice on safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

**Hygiene measures:** Do not eat, drink or smoke when using this product.

# **Conditions for safe storage, including incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

# **Section 8: Exposure Controls/Personal Protection**

## **Control parameters:**

Occupational exposure limits: Contains no substances with occupational exposure limit values.

#### **Exposure controls:**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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# **Section 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Appearance (form): Solid (powder).

Colour: White.

**Odour:** No data available.

Odour threshold: No data available.
pH (concentration): No data available.
Melting point/range (°C): No data available.
Boiling point/range (°C): No data available.
Freezing point (°C): No data available.
Flash point (°C): No data available.
Evaporation rate: No data available.

Flammability (solid, gas): No data available.
Ignition temperature (°C): No data available.

Upper/lower flammability/explosive limits: No data available.

Vapour pressure (20 °C): No data available.

Vapour density: No data available.

Relative density (25 °C): No data available.

Water solubility (g/L) at 20 °C: No data available.

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity, dynamic (mPa s): No data available.

**Explosive properties:** The substance or mixture is not classified as explosive. **Oxidising properties:** The substance or mixture is not classified as oxidizing.

# Section 10: Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Moisture.

**Incompatible materials:** Strong acids, strong oxidizing agents.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions: Carbon oxides,

Rubidium oxides.

# **Section 11: Toxicological Information**

## Information on toxicological effects:

## **Acute Toxicity:**

LD50 Oral - Rat - 2.625 mg/kg

Remarks: Peripheral Nerve and Sensation: Spastic paralysis with or without sensory change. Behavioural: Somnolence (general depressed activity). Behavioural: Convulsions or effect on seizure threshold.

Classification according to GHS (1272/2008/EG, CLP)



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### Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/eye irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Not classified based on available information.

Germ cell mutagenicity:

Not classified based on available information.

#### Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity:

Not classified based on available information.

Specific target organ toxicity – single exposure (STOT):

May cause respiratory irritation.

## Specific target organ toxicity (STOT) - repeated exposure:

Not classified based on available information.

#### Aspiration toxicity:

Not classified based on available information.

# **Section 12: Ecological Information**

Toxicity: No data available.

Persistence and degradability: No data available. Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT& vPvB assessment: Not relevant.

Other adverse effects: No data available.

# **Section 13: Disposal Considerations**

**Waste treatment methods:** Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# **Section 14: Transport Information**

**UN number:** Not regulated as a dangerous good.

**UN proper shipping name:** Not regulated as a dangerous good. **Transport hazard class(es):** Not regulated as a dangerous good.

Packing group: Not regulated as a dangerous good.

**Environmental hazards:** Not regulated as a dangerous good.

Special precautions for user: Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.



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# **Section 15: Regulatory Information**

#### **EU** regulations:

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as

amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as

amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as

amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

## **Authorisations:**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

## **Restrictions on use:**

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as

amended

Not listed.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens

at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or

are breastfeeding.

Not regulated.

#### Other EU regulations:

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents

at work.

Always applicable.

Directive 94/33/EC on the protection of young people at work



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Not listed.

Other regulations: The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations:** Follow national regulation for work with chemical agents. **Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

## **Section 16: Other Information**

#### List of abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

ALARA As Low As Is Reasonably Achievable

AMU Atomic Mass Unit

ANSI American National Standards Institute

**BLS Basic Life Support** 

**CAM Continuous Air Monitor** 

CAS Chemical Abstracts Service (division of the American Chemical Society)

**CEN European Committee for Standardization** 

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CLP Classification, Labelling and Packaging (European Union)

CPR Controlled Products Regulations (Canada)

CWA Clean Water Act (USA)

DAC Derived Air Concentration (USA)

DOE United States Department of Energy (USA)

DOT United States Department of Transportation (USA)

DSL Domestic Substances List (Canada)

EC50 Half Maximal Effective Concentration

**EINECS European Inventory of Existing Commercial Chemical Substances** 

EHS Environmentally Hazardous Substance

**ELINCS European List of Notified Chemical Substances** 

EMS Emergency Response Procedures for Ships Carrying Dangerous Goods

EPA Environmental Protection Agency (USA)

EPCRA Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986

**GHS Globally Harmonized System** 

HMIS Hazardous Materials Identification System (USA)

IARC International Agency for Research on Cancer

IATA International Air Transport Association

**IBC Intermediate Bulk Containers** 

ICAO International Civil Aviation Organization

IDLH Immediately Dangerous to Life or Health

IMDG International Maritime Code for Dangerous Goods

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

LDLO Lethal Dose Low



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LOEC Lowest-Observed-Effective Concentration

MARPOL International Convention for the Prevention of Pollution from Ships

MSHA Mine Safety and Health Administration (USA)

NCRP National Council on Radiation Protection & Measurements (USA)

NDSL Non-Domestic Substances List (Canada)

NFPA National Fire Protection Association (USA)

NIOSH National Institute for Occupational Safety and Health (USA)

**NOEC No Observed Effect Concentration** 

N.O.S. Not Otherwise Specified

NRC Nuclear Regulatory Commission (USA)

NTP National Toxicology Program (USA)

OSHA Occupational Safety and Health Administration (USA)

PBT Persistent Bioaccumulative and Toxic Chemical

PEL Permissible Exposure Limit

PIH Poisonous by Inhalation Hazard

RCRA Resource Conservation and Recovery Act (USA)

**RCT Radiation Control Technician** 

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)

RID Regulations Concerning the International Transport of Dangerous Goods by Rail

**RTECS Registry of Toxic Effects of Chemical Substances** 

SARA Superfund Amendments and Reauthorization Act (USA)

TDG Transportation of Dangerous Goods (Canada)

TIH Toxic by Inhalation Hazard

TLV Threshold Limit Value

TPQ Threshold Planning Quantity

TSCA Toxic Substances Control Act

TWA Time Weighted Average

**UN United Nations (Number)** 

**VOC Volatile Organic Compound** 

vPvB Very Persistent Very Bioaccumulative Chemical

WGK Wassergefährdungsklassen (Germany: Water Hazard Classes)

WHMIS Workplace Hazardous Materials Information System

## **References:**

Not available.

### Full text of any H-statements not written out in full under Sections 2 to 15:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

## **Revision information:**

None.

## **Training information:**

Follow training instructions when handling this material.

## **Further Information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The



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information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.