

# MATERIAL SAFETY DATA SHEET

## Chemical Product

Product Name: RUBIDIUM CARBONATE

CAS#: 854-09-8

C.I. No.: Not available.

Synonym: Not available.

Chemical Name: RUBIDIUM CARBONATE

Chemical Formula: CO<sub>3</sub>Rb<sub>2</sub>

## Composition and Information on Ingredients

Name	S.K.U	% by Weight
RUBIDIUM CARBONATE	GCS-3243	100

## Hazards Identification

Classification of the substance or mixture

Classification of the substance according to Regulation (EC) No 1272/2008:

Flammable liquids (Category 2), H225

Other hazards : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Contact with water liberates toxic gas.

## 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.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.  
Rinse mouth with water. Consult a physician.  
Indication of any immediate medical attention and special treatment needed  
No data available

## Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

Carbon oxides

### Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

### Further information

Use water spray to cool unopened containers.

## Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

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

## Handling and Storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
strongly hygroscopic Storage class (TRGS 510): Non Combustible Solids

## Exposure Controls/Personal Protection

### Control parameters

### 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.

**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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection: Impervious clothing, Flame retardant antistatic protective 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 r (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).

Control of environmental exposure: Do not let product enter drains.

## Physical and Chemical Properties

**Information on basic physical and chemical properties a) Appearance Form**

**b) Odour**

**: White powder.**

: No data available.

**c) Odour threshold**

: No data available.

**d) pH**

: No data available.

**e) Melting point/range**

: No data available.

**f) Initial boiling point and boiling range**

: No data available.

**g) Autoignition temperature**

: No data available.

**h) Flammability (solid, gas)**

: No data available.

**i) Upper/lower flammability or explosive limits : No data available. j) Flash point [°C]**

: No data available.

**k) Evaporation rate**

: No data available.

**l) Vapour pressure**

: No data available.

**m) Vapour density**

: No data available.

**n) Relative density,**

: No data available.

**o) Solubility in water**

: No data available.

**p) Viscosity**

: No data available.

**q) Explosive properties**

: No data available.

<b>r)</b> Oxidising properties	: No data available.
<b>s)</b> Decomposition temperature	: No data available.
<b>t)</b> Autoignition temperature	: No data available.
Molecular Weight	: No data available.

## Stability and Reactivity Data

Reactivity : No data available.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : Avoid moisture.

Incompatible materials : Strong oxidizing agents, strong bases.

### Hazardous decomposition products

Other decomposition products - Hazardous decomposition products formed under fire conditions.-

Carbon oxides, Rubidium oxides

Other decomposition products-No data available.

## Toxicological Information

### Information on toxicological effects

Acute toxicity

LD50 Oral-Rat-2,625 mg/kg (Rubidium carbonate)

Remarks: Peripheral Nerve and Sensation: Spastic paralysis with or without sensory change. Behavioral: Somnolence (general depressed activity). Behavioral:

Convulsions or effect on seizure threshold.

### Skin corrosion/irritation

No data available (Rubidium carbonate)

Serious eye

damage/eye

irritation No data

available

(Rubidium

carbonate)

Respiratory or

skin sensitization

No data

available

(Rubidium

carbonate) Germ

cell mutagenicity

No data available (Rubidium carbonate)

### Carcinogenicity

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

**Reproductive toxicity**

No data available (Rubidium carbonate)

**Specific target organ toxicity - single exposure**

Inhalation-May cause respiratory irritation. (Rubidium carbonate)

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available (Rubidium carbonate)

**Additional Information**

RTECS: ET5500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Rubidium carbonate)

## Ecological Information

Toxicity: No data available.

Persistence - degradability : No data available.

Bioaccumulative potential : Not established.

Mobility in soil : Not established.

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects : No data available.

## Disposal Considerations

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Dissolve or mix the material with a combustible solvent and burn in a chem scrubber..

Contaminated packaging: Dispose of as unused product.

## Transformation Information

**Land transport (ADR-RID)**

General information : Not regulated.

**Sea transport (IMDG) [English only]**

General information : Not regulated.

**Air transport (ICAO-IATA) [English only]**

General information : Not regulated.

## Other Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## Additional Information



References: Not available.

Other Special Considerations: Not available.

## ***Disclaimer:***

\*\*\*\*\*

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

 **makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly,  will not be responsible for damages resulting from use of or reliance upon this information.**