

according to Regulation (EC) No. 1907/2006

Revision Date 14.07.2017

Version 1.3

SECTION 1. Identification of the su	bstance/mixture and of the company/undertaking
1.1 Product identifier	
Catalogue No.	843858
Product name	Rubidium carbonate for synthesis
REACH Registration Number	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS-No.	584-09-8
1.2 Relevant identified uses of th	e substance or mixture and uses advised against
Identified uses	Chemical for synthesis
	For additional information on uses please refer to the Merck Chemicals portal (www.merckgroup.com).
1.3 Details of the supplier of the s	safety data sheet
Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com
1.4 Emergency telephone number	Please contact the regional company representation in your country.
SECTION 2. Hazards identification	

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006

Catalogue No.843858Product nameRubidium carbonate for synthesis

Specific target organ toxicity - single exposure, Category 3, H335

Skin irritation, Category 2, H315

Eye irritation, Category 2, H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

*Hazard statements*H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary statements

Response

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word

according to Regulation (EC) No. 1907/2006

Catalogue No.	843	3858
Product name	Rubidium carbonate for synthesis	
Warning		
Warning		
CAS-No.	584-09-8	
2.3 Other hazard	ds	
None known.		
SECTION 3. Com	position/information on in	gredients
3.1 Substance		
Formula	Rb₂C(O₃ CO₃Rb₂ (Hill)
EC-No.	209-5	30-9
Molar mass	230,95 g/mol	
Hazardous co	omponents (REGULATIO	N (EC) No 1272/2008)
Chemical nar	me (Concentration)	
CAS-No.	Registration number	Classification
rubidium carb	oonate <i>(<= 100 %)</i>	
584-09-8	*)	
		Skin irritation, Category 2, H315
		Eye irritation, Category 2, H319
		Specific target organ toxicity - single exposure, Category 3, H335
	tion (EC) No 1907/2006, the an	ubstance as the substance or its use are exempted from registration according to Article nual tonnage does not require a registration or the registration is envisaged for a later
For the full te	xt of the H-Statements m	entioned in this Section, see Section 16.
3.2 Mixture		
Not applicable	e	

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

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In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

CNS disorders irritant effects, Cough, Shortness of breath

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system. Suppress (knock down) gases/vapours/mists with a water spray jet.

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SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry.

Recommended storage temperature see product label.

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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

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This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder
Colour	white
Odour	odourless
Odour Threshold	Not applicable
рН	11,7 at 50 g/l 20 °C
Melting point	837 °C

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Product name	Rubidium carbonate for synthesis	
Boiling point	No information available.	
Flash point	No information available.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Lower explosion limit	No information available.	
Upper explosion limit	No information available.	
Vapour pressure	No information available.	
Relative vapour density	No information available.	
Density	No information available.	
Relative density	No information available.	
Water solubility	4.500 g/l at 20 °C	
Partition coefficient: n- octanol/water	No information available.	
Auto-ignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Oxidizing properties	none	

9.2 Other data

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

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Product name	Rubidium carbonate for synthesis
none	
SECTION 10. Stability and	reactivity
10.1 Reactivity	
See section 10.3	
10.2 Chemical stability	
	ally stable under standard ambient conditions (room temperature).
10.3 Possibility of hazard	ous reactions
Violent reactions possi	
Strong acids, Strong o	xidizing agents
10.4 Conditions to avoid	
no information availabl	le
10.5 Incompatible materia	als
no information availabl	le
10.6 Hazardous decompo	osition products
no information availabl	le
SECTION 11. Toxicological	
11.1 Information on toxico	
Acute oral toxicity	
LD50 Rat: 2.625 mg/k	g
(RTECS)	
	of mucous membranes in the mouth, pharynx, oesophagus and
gastrointestinal tract.	n naoodo menoranoo m no moden, prarynx, oooopnagao ana

Acute inhalation toxicity

Symptoms: Shortness of breath, Cough, mucosal irritations

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Catalogue No. 8	343858
Product name F	Rubidium carbonate for synthesis
Acute dermal toxicity	
This information is not available.	
Skin irritation	
Causes skin irritation.	
Eye irritation	
Causes serious eye irritation.	
Sensitisation	
This information is not available.	
Germ cell mutagenicity	
This information is not available.	
Carcinogenicity	
This information is not available.	
Reproductive toxicity	
This information is not available.	
<i>Teratogenicity</i> This information is not available.	
Specific target organ toxicity - single	exposure
May cause respiratory irritation.	
Specific target organ toxicity - repea	ted exposure
This information is not available.	
Aspiration hazard	
This information is not available.	
11.2 Further information	
After absorption:	
CNS disorders	

CNS disorders

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

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Catalogue No.843858Product nameRubidium carbonate for synthesis

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Inland waterway transport (ADN)	
Not relevant	
Air transport (IATA)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport
	regulations.
Sea transport (IMDG)	

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Catalogue No.	843858	
Product name	Rubidium carbor	nate for synthesis
14.1 - 14.6 14.7 Transport in bulk accor Not relevant	regulations.	dangerous in the meaning of transport RPOL 73/78 and the IBC Code
SECTION 15. Regulatory inform	ation	
15.1 Safety, health and enviro	nmental regulations/legis	slation specific for the substance or mixture
EU regulations		
Major Accident Hazard	SEVESO III	
Legislation	Not applicable	
Occupational restrictions	Take note of Dir 94/3 work.	3/EC on the protection of young people at
Regulation (EC) No 1005/20 deplete the ozone layer	009 on substances that	not regulated
Regulation (EC) No 850/200 Parliament and of the Coun persistent organic pollutants Directive 79/117/EEC	cil of 29 April 2004 on	not regulated
Substances of very high con	ncern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \ge 0.1 % (w/w).
National legislation Storage class	10 - 13 Pent	
15.2 Chemical safety assessment	nent	

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

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Product name

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Rubidium carbonate for synthesis

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word Warning

*Hazard statements*H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary statements

Response
P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.
P313 Get medical advice/ attention.

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843858 Rubidium carbonate for synthesis

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.