

TECHNICAL DATA SHEET

Date of Issue: 2016/08/24

Cesium Hydrogen Carbonate (Cesium Bicarbonate), purity min. 99.9 %

CAS-No. 15519-28-5

EC-No. 239-554-5

Molecular Formula CsHCO_3

Product Number 425017

APPLICATION

Cesium hydrogen carbonate is used as a base in organic reactions.

FURTHER INGREDIENTS

Cesium carbonate

CAS-No. 534-17-8

EC-No. 208-591-9

PURITY

min. 99.9%

SPECIFICATION

Li	max. 0.5 ppm
Na	max. 30 ppm
K	max. 50 ppm
Rb	max. 20 ppm
Ca	max. 2 ppm
Mg	max. 1 ppm
Ba	max. 50 ppm
Sr	max. 10 ppm
Al	max. 2 ppm
Fe	max. 2 ppm

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.



Cr	max. 1 ppm
SO ₄	max. 25 ppm
Cl	max. 100 ppm
SiO ₂	max. 20 ppm

The product may contain max. 10 % of carbonate as Cs₂CO₃.

Deliveries are accompanied by a lot specific certificate of analysis. If any of these values is critical to your application, please let us know.

PHYSICAL PROPERTIES

Appearance	Crystalline powder
Color	colorless-white
Decomposition temperature	> 70 °C
Bulk density	ca. 1,400 kg/m ³
Water solubility	2,090 g/L at 15 °C
Molecular weight	193.92 g/mol
Thermal Stability	onset of decomposition at approx. 30 °C

HANDLING & STORAGE

Handling	The material is less hygroscopic than cesium carbonate. Contact to skin and eyes or ingestion will cause serious caustic burns.
----------	--

TRANSPORT & PACKAGING

ADR
Not regulated as a dangerous good

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.

Hazard pictograms



Signal Word	Danger
H&P Phrases	See Safety Data Sheet
Labelling	The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

PE bottles or bags with aluminium barrier in drums (fiber drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). The aluminium barrier prevents diffusion of moisture into the product.

Alternative packaging on request. Smaller units are available at surcharge.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
---------------------------	-------------------

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.