

TECHNICAL DATA SHEET

Date of Issue: 2016/08/24

Cesium Fluoride, purity min. 99.9 % (70 % solution in water)

CAS-No. 13400-13-0

EC-No. 236-487-3

Molecular Formula

Product Number 423522

APPLICATION

Cesium Fluoride is a fluorination agent for halide exchange reactions. It is a versatile base in organic synthesis and can be used in e.g. in polymerization reactions or in brazing fluxes.

PURITY

min. 99.9 %

SPECIFICATION

Li	max. 5 ppm
Na	max. 100 ppm
K	max. 300 ppm
Rb	max. 100 ppm
Ca	max. 5 ppm
Mg	max. 5 ppm
Sr	max. 5 ppm
Ba	max. 5 ppm
Al	max. 5 ppm
Fe	max. 10 ppm
Cr	max. 3 ppm
P2O5	max. 5 ppm
SO4	max. 100 ppm
CO3	max. 100 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.



Cl	max. 100 ppm
----	--------------

free acid as HF	max. 0.1 %
-----------------	------------

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	liquid
Color	colorless
Density	ca. 2.3 g/cm ³ at 20 °C
Water solubility	(completely miscible)
Molecular weight	151.90 g/mol
Additional Physical Properties	Concentration: 70 - 72 % by weight

HANDLING & STORAGE

Handling	Safe handling requires the safety precautions typical for inorganic fluorides. Thus, eyes or skin should not be exposed to cesium fluoride solution, otherwise severe irritation may result. Ingestion must be avoided because of the toxicity of fluoride. Absorb spilled liquids with lime.
Storage	Cesium Fluoride solution should be stored in tightly closed containers away from strong acids. Due to a possible HF content, glass and enamel may be damaged.

TRANSPORT & PACKAGING

UN number 3287

ADR	Class: 6.1	PG: III	Label: 6.1
RID	Class: 6.1	PG: III	Label: 6.1
IMDG	Class: 6.1	PG: III	Label: 6.1
IATA_C	Class: 6.1	PG: III	Packing instruction (cargo aircraft): 663
IATA_P	Class: 6.1	PG: III	Packing instruction (passenger aircraft): 655

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.

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

Mauser containers or PE cans. Alternative packaging on request.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

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.