## **TECHNICAL DATA SHEET**

Date of Issue: 2016/08/24

# Cesium Fluoride, purity min. 99.9 %

CAS-No. 13400-13-0

EC-No. 236-487-3

Molecular Formula CsF

Product Number 425022

**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	
Ва	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.



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CI 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 crystalline powder

Color white

Melting point/ range 703 °C at 1,013 hPa Method: OECD Test Guideline 102

Boiling point/boiling

range

1,251 °C

Density ca. 4.64 g/cm3 at 20 °C

Bulk density 2,000 - 3,200 kg/m3

Water solubility 5,730 g/L at 25 °C

Molecular weight 151.90 g/mol

#### HANDLING & STORAGE

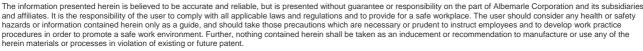
Handling in moist air should be avoided. Safe handling requires the safety

precautions typical for inorganic fluorides. Thus, eyes or skin should not be exposed to cesium fluoride, otherwise severe irritation may result. Ingestion must be avoided

because of the toxicity of fluoride.

Storage Because of its hygroscopicity cesium fluoride should be stored in tightly closed

containers.





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#### TRANSPORT & PACKAGING

#### UN number 3288

ADR	Class: 6.1	PG: II	Label: 6.1
RID	Class: 6.1	PG: II	Label: 6.1
IMDG	Class: 6.1	PG: II	Label: 6.1
IATA_C	Class: 6.1	PG: II	Packing instruction (cargo aircraft): 676
IATA_P	Class: 6.1	PG: II	Packing instruction (passenger aircraft): 669

## 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

Glass bottles or PE 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

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