

## TECHNICAL DATA SHEET

Date of Issue: 2021/07/22

# Cesium Tetrafluoro Aluminate Complex 60:40, purity min. 99 %

CAS-No.	138577-01-2
EC-No.	434-690-3
REACH No.	01-0000018082-78-0001
Molecular formula	approx. Cs <sub>3</sub> Al <sub>2</sub> F <sub>9</sub> (complex mixture)
Product number	10000354

---

**APPLICATION** white amorphous substance

---

**PURITY** min. 99 %

---

### SPECIFICATION

Cs	57 - 66 %
Al	6 - 11 %
F	25 - 35 %
Li	max. 100 ppm
Na	max. 1000 ppm
K	max. 1000 ppm
Rb	max. 1000 ppm
Ca	max. 500 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](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://www.albemarle-lithium.com/contact) with questions.



Product number: 10000354

Date of Issue: 2021/07/22

---

---

Ba	max. 50 ppm
lower limit melting range	min. 410 °C
upper limit melting range	max. 500 °C
particle size x90	max. 20 µm
weight loss at 300 °C	max. 2 %

---

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	powder
Colour	white
Melting point/range	ca. 240 °C
Density	3.86 g/cm <sup>3</sup> at 20 °C Method: OECD Test Guideline 109
Bulk density	800 - 1,200 kg/m <sup>3</sup>
Water solubility	ca. 16 g/l at 20 °C Method: OECD Test Guideline 105
Molecular weight	624 g/mol
Additional Physical Properties	pH-Value: 6 – 8 (10 % aqueous suspension)

---

## HANDLING & STORAGE

Storage	If stored properly, under exclusion of moisture and chemicals in tightly closed containers at ambient temperatures, shelf life of the material will exceed one year.
---------	--

---

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.

---

## TRANSPORT & PACKAGING

ADR

Not regulated as a dangerous good

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 bags or bottles. Alternative packaging on request. Smaller units 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](http://www.albemarle-lithium.com). Please contact us at [www.albemarle-lithium.com/contact](http://www.albemarle-lithium.com/contact) with questions.