



# SAFETY DATA SHEET

**MATERION**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation**      **Lead Fluoride (PbF<sub>2</sub>)**

**Version No.**      01

**Issue date**      04-May-2015

**CAS #**      7783-46-2

**SDS Number**      L-MSDS0013

**Manufacturer information**      Materion Advanced Chemicals Inc.  
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1316 W. St. Paul Avenue  
Milwaukee, WI 53233

United States  
advancedmaterials@materion.com  
414.212.0257

## 2. HAZARDS IDENTIFICATION

**Classification**      Repr. Cat. 1;R61, Repr. Cat. 3;R62, Xn;R20/22, R33, N;R50/53

**Physical hazards**      Not classified as a physical hazard.

**Health hazards**      May cause harm to the unborn child. Possible risk of impaired fertility. Harmful by inhalation and if swallowed. Danger of cumulative effects.

**Environmental hazards**      Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
Lead Fluoride	7783-46-2	100	231-998-8	Repr. Cat. 1;R61, Repr. Cat. 3;R62, Xn;R20/22, R33, N;R50/53

## 4. FIRST-AID MEASURES

## 5. FIRE-FIGHTING MEASURES

## 6. ACCIDENTAL RELEASE MEASURES

## 7. HANDLING AND STORAGE

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits**      No exposure limits noted for ingredient(s).

**Biological limit values**      No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

**Additional exposure data**      Not available.

**Personal protective equipment**

**Skin and body protection**      Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

**Physical state**      Solid.

**Form**      Not available.

**Colour**      Not available.

**Odour**      Not applicable.

**Odour threshold**      Not available.

**pH**      Not available.

**Boiling point**      1293 °C (2359,4 °F)

**Flash point**      Not available.

<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapour pressure</b>	< 0,0000001 kPa at 25 °C
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Melting point/freezing point</b>	824 °C (1515,2 °F)
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	Not available.
<b>Molecular weight</b>	245,2 g/mol
<b>Molecular formula</b>	F <sub>2</sub> -Pb
<b>Other data</b>	
<b>Density</b>	8,44 g/cm <sup>3</sup> estimated
<b>Specific gravity</b>	8,45

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Not available.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

Product	Species	Test results
Lead Fluoride (CAS 7783-46-2)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Mouse	3015 mg/kg
	Rat	3031 mg/kg

### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Lead Fluoride (CAS 7783-46-2) 2A Probably carcinogenic to humans.

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

## 14. TRANSPORT INFORMATION

### ADR

<b>UN number</b>	2291
<b>UN proper shipping name</b>	Lead compound, soluble, n.o.s. (Lead Fluoride)
<b>Transport hazard class(es)</b>	
<b>Class</b>	6.1(PGIII)
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	6.1
<b>Hazard No.(ADR)</b>	60
<b>Tunnel restriction code</b>	E
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Not available.

### IATA

<b>UN number</b>	2291
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**UN proper shipping name** Lead compound, soluble, n.o.s. (Lead Fluoride)  
**Transport hazard class(es)**  
**Class** 6.1(PGIII)  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards** No.  
**ERG Code** 6L  
**Special precautions for user** Not available.  
**Other information**  
**Passenger and cargo aircraft** Allowed.  
**Cargo aircraft only** Allowed.

**IMDG**

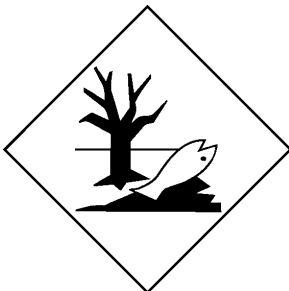
**UN number** 2291  
**UN proper shipping name** LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Fluoride)  
**Transport hazard class(es)**  
**Class** 6.1(PGIII)  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-A  
**Special precautions for user** Not available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

**ADR; IATA; IMDG**



**Marine pollutant**



**15. REGULATORY INFORMATION**

**Labeling**

**Contains** Lead Fluoride  
**EC number** 231-998-8  
**Symbol(s)**



Toxic



Dangerous for the environment

<b>R-phrases(s)</b>	R61 May cause harm to the unborn child. R20/22 Harmful by inhalation and if swallowed. R33 Danger of cumulative effects. R62 Possible risk of impaired fertility. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-phrases(s)</b>	S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S53 Avoid exposure - obtain special instructions before use. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

## 16. OTHER INFORMATION

<b>Wording of the R-phrases in sections 2 and 3</b>	R20/22 Harmful by inhalation and if swallowed. R33 Danger of cumulative effects. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility.
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