



# SAFETY DATA SHEET

**MATERION**

## 1. Product and company identification

**Product name** **Lead Fluoride (PbF<sub>2</sub>)**  
**Manufacturer/Supplier** Materion Advanced Chemicals Inc.  
**Address** 407 N. 13th Street  
1316 W. St. Paul Avenue  
Milwaukee, WI 53233  
United States  
**Telephone** 414.212.0257  
**e-mail** advancedmaterials@materion.com  
**Contact person** Noreen Atkinson  
**Emergency telephone number**

### Recommended use and Limitations on use

**Recommended use** Not available.  
**SDS number** L-MSDS0013

## 2. Hazards identification

### GHS classification

**Physical hazards** Not classified.  
**Health hazards** Acute toxicity, oral Category 4  
Acute toxicity, inhalation Category 4  
Carcinogenicity Category 1  
Reproductive toxicity (fertility, the unborn child) Category 1A  
Specific target organ toxicity following repeated exposure Category 2  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 1  
Hazardous to the aquatic environment, long-term hazard Category 1

### Label elements

**Symbols** None.  
**Signal word** None.  
**Hazard statement** None.

## 3. Composition/information on ingredients

**Substance or mixture** Substance

<b>Chemical property</b>	<b>CAS Number</b>	<b>Concentration (%)</b>
Lead Fluoride	7783-46-2	100

## 4. First aid measures

**Inhalation** Not available.  
**Skin contact** Not available.  
**Eye contact** Not available.  
**Ingestion** Not available.  
**Potential delayed effects** Not available.  
**Personal protection for first-aid responders** Not available.  
**Notes to physician** Not available.

## 5. Fire-fighting measures

**Extinguishing media** Not available.

<b>Extinguishing media to avoid</b>	None.
<b>HAZCHEM Code Number</b>	None.
<b>Specific hazards during fire fighting</b>	None.
<b>Special fire fighting procedures</b>	Not available.
<b>Protection of fire-fighters</b>	Not available.
<b>Hazards from combustion products</b>	None.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Not available.
<b>Environmental precautions</b>	Not available.
<b>Spill cleanup methods</b>	Not available.

## 7. Handling and storage

### Handling

<b>Precautions</b>	Not available.
<b>Safe handling advice</b>	Not available.
<b>Prevention of fire and explosion</b>	Not available.

### Storage

<b>Suitable storage conditions</b>	Not available.
<b>Incompatible materials</b>	Not available.

## 8. Exposure controls/personal protection

### Exposure limits

No exposure limits noted for ingredient(s).

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

### Engineering controls

### Personal protective equipment

<b>Respiratory protection</b>	Not available.
<b>Skin protection</b>	Not available.
<b>Eye/face protection</b>	Not available.
<b>Radioactive or thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Not available.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Not available.
<b>Colour</b>	Not available.

**Odour** Not applicable.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** 824 °C (1515.2 °F)

**Boiling point, initial boiling point, and boiling range** 1293 °C (2359.4 °F)

**Flash point** Not available.

**Auto-ignition temperature** Not available.

**Flammability (solid, gas)** Not applicable.

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	< 0.0000001 kPa at 25 °C
<b>Vapour density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Relative density</b>	Not available.
<b>Density</b>	8.44 g/cm <sup>3</sup> estimated
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Molecular weight</b>	245.2 g/mol
<b>Other data</b>	
<b>Molecular formula</b>	F2-Pb
<b>Specific gravity</b>	8.45

## 10. Stability and reactivity

<b>Stability</b>	None.
<b>Conditions to avoid</b>	None.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	None.
<b>Possibility of hazardous reactions</b>	None.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.

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
<b>Routes of exposure</b>	Not available.	
<b>Symptoms</b>	Not available.	
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Skin sensitiser</b>	Not available.	
<b>Carcinogenicity</b>		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Lead Fluoride (CAS 7783-46-2)	2A Probably carcinogenic to humans.	
<b>Chronic effects</b>	Not available.	
<b>Relevant negative data</b>	Not available.	

## 12. Ecological information

<b>Ecotoxicity</b>	Not available.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation</b>	Not available.

<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>Mobility</b>	Not available.
<b>Other hazardous effects</b>	Not available.

### 13. Disposal considerations

<b>Disposal methods/information</b>	Not available.
<b>Special precautions</b>	Not available.

### 14. Transport information

#### IATA

<b>UN number</b>	UN2291
<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>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	6L
<b>Special precautions for user</b>	Not available.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

#### IMDG

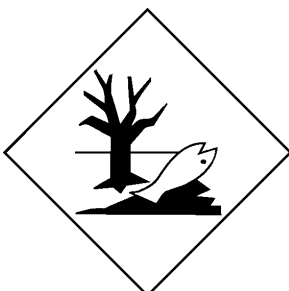
<b>UN number</b>	UN2291
<b>UN proper shipping name</b>	LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Fluoride)
<b>Transport hazard class(es)</b>	
<b>Class</b>	6.1(PGIII)
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-A
<b>Special precautions for user</b>	Not available.

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

#### IATA; IMDG



#### Marine pollutant



## 15. Regulatory information

### Applicable regulations

#### New Zealand Inventory of Chemicals (NZIoC): Registration status

Lead Fluoride (CAS 7783-46-2)

HSNO Approved

## 16. Other information

### References

Not available.

### Issued by

Not available.

### Prepared by

Not available.

### Issue date

04-May-2015