



SAFETY DATA SHEET

MATERION

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

Identification of the substance/preparation **Lead Fluoride (PbF₂)**

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
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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.

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

10. STABILITY AND REACTIVITY

Conditions to avoid	Not available.
Hazardous decomposition products	Not available.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Species	Test results
Lead Fluoride (CAS 7783-46-2)		
Acute		
Oral		
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

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	-
Label(s)	6.1
Hazard No.(ADR)	60
Tunnel restriction code	E
Packing group	III
Environmental hazards	No.
Special precautions for user	Not available.

IATA

UN number	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

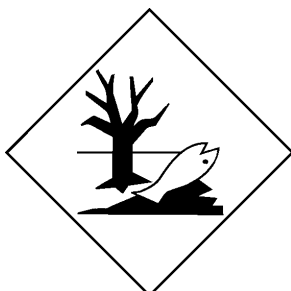
UN number 2291
UN proper shipping name LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Fluoride)
Transport hazard class(es)
Class 6.1(PGIII)
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant Yes
EmS F-A, S-A
Special precautions for user Not available.

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

R-phrase(s)

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.

S-phrase(s)

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

Wording of the R-phrases in sections 2 and 3

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.