# SAFETY DATA SHEET

Version 6.1 Revision Date 05/28/2017 Print Date 11/19/2018

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Lead(II) fluoride

Product Number : 229725
Brand : Aldrich
Index-No. : 082-001-00-6

CAS-No. : 7783-46-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1A), H360

Specific target organ toxicity - repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled

H350 May cause cancer.

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H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P284 Wear respiratory protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse

mouth

P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call

a POISON CENTER or doctor/ physician.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Strong hydrogen fluoride-releaser

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

P308 + P313

Formula : F<sub>2</sub>Pb

Molecular weight : 245.2 g/mol
CAS-No. : 7783-46-2
EC-No. : 231-998-8
Index-No. : 082-001-00-6

# **Hazardous components**

Component	Classification	Concentration
Lead difluoride		
	Acute Tox. 2; Acute Tox. 1; Carc. 1B; Repr. 1A; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310 + H330, H350, H360, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Hydrofluoric (HF) acid burns require immediate and specialized first aid a hours depending on the concentration of HF. After

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decontamination with wa penetration/absorption of the fluoride ion. Treatment should be directed exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel exposures may require subcutaneous calcium gluconate except for digital a technique, due to the potential for tissue injury from increased pressure and should be considered when undergoing decontamination. Prevention of a obtained by giving milk, chewable calcium carbonate tablets or Milk of Ma hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. First treatment with calcium gluconate paste.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## 4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Hydrogen fluoride, Lead oxides

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

## **6. ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

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Keep in a dry place. Do not store in glass

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis	
1 1:0 :1	7700 40 0	T14/4	parameters	HOA ACCULTU I III ' 'IV' I	
Lead difluoride	7783-46-2	TWA	0.050000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
	Remarks	Central Nervous System impairment			
		Hematologic effects			
		Peripheral Nervous System impairment			
		Substances for which there is a Biological Exposure Index or Indices			
		(see BEI® s	section)		
		Confirmed a	n with unknown relevance to humans		
		varies			
		TWA	2.500000	USA. Occupational Exposure Limits	
			mg/m3	(OSHA) - Table Z-1 Limits for Air Contaminants	
		CAC numb	or veries with son	-	
		CAS number varies with compound			
		TWA	2.500000	USA. Occupational Exposure Limits	
		707.00.400	mg/m3	(OSHA) - Table Z-2	
		Z37.28-196	_	T	
		TWA	2.500000	USA. ACGIH Threshold Limit Values	
			mg/m3	(TLV)	
		Bone dama			
		Fluorosis			
				s a Biological Exposure Index or Indices	
			(see BEI® section)		
		Not classifia	carcinogen		
		varies			
		TWA	0.050000	USA. NIOSH Recommended	
			0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits	
			mg/m3		
		TWA	mg/m3		
		TWA See Append	mg/m3 dix C	Exposure Limits	
		TWA See Append	mg/m3 dix C 2.500000 mg/m3	USA. ACGIH Threshold Limit Values	
		TWA See Append TWA	mg/m3 dix C 2.500000 mg/m3	USA. ACGIH Threshold Limit Values	
		TWA  See Append TWA  Bone dama Fluorosis	mg/m3 dix C 2.500000 mg/m3 ge	USA. ACGIH Threshold Limit Values	
		TWA  See Append TWA  Bone dama Fluorosis Substances	mg/m3 dix C 2.500000 mg/m3 ge	USA. ACGIH Threshold Limit Values (TLV)	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s	mg/m3 dix C 2.500000 mg/m3 ge	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s	mg/m3 dix C 2.500000 mg/m3 ge for which there is section)	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia	mg/m3 dix C 2.500000 mg/m3 ge for which there is section)	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies	mg/m3 dix C 2.500000 mg/m3 ge a for which there is section) able as a human of	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies  PEL	mg/m3 dix C 2.500000 mg/m3 ge a for which there is section) able as a human of	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies PEL  1910.1025	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of the displacement of the displ	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies PEL  1910.1025 If an employ	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of the displacement of the displ	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies PEL  1910.1025 If an employ day, the per	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of mg/m3 yee is exposed to missible exposur	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens  lead for more than 8 hours in any work to limit, as a time weighted average	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies  PEL  1910.1025 If an employ day, the per (TWA) for th	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of mg/m3 yee is exposed to missible exposurat day, shall be re-	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens  lead for more than 8 hours in any work to limit, as a time weighted average reduced according to the following	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies  PEL  1910.1025 If an employ day, the per (TWA) for th formula: Ma	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of mg/m3 yee is exposed to missible exposurat day, shall be re-	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens  lead for more than 8 hours in any work to limit, as a time weighted average	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies  PEL  1910.1025 If an employ day, the per (TWA) for th formula: Ma in the day	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of mg/m3 yee is exposed to missible exposur nat day, shall be reximum permissib	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens  lead for more than 8 hours in any work the limit, as a time weighted average reduced according to the following the limit (in μg/m3 )=400÷hours worked	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies  PEL  1910.1025 If an employ day, the per (TWA) for th formula: Ma in the day This section	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of mg/m3 yee is exposed to missible exposur nat day, shall be reximum permissible applies to all occ	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens  lead for more than 8 hours in any work to limit, as a time weighted average reduced according to the following to limit (in µg/m3 )=400÷hours worked cupational exposure to lead, except as	
		TWA  See Append TWA  Bone dama Fluorosis Substances (see BEI® s Not classifia varies  PEL  1910.1025 If an employ day, the per (TWA) for th formula: Ma in the day This section provided in	mg/m3 dix C 2.500000 mg/m3 ge for which there is section) able as a human of mg/m3 yee is exposed to missible exposur nat day, shall be reaximum permissible applies to all occuparagraph (a)(2).	USA. ACGIH Threshold Limit Values (TLV)  s a Biological Exposure Index or Indices carcinogen  OSHA Specifically Regulated Chemicals/Carcinogens  lead for more than 8 hours in any work the limit, as a time weighted average reduced according to the following the limit (in μg/m3 )=400÷hours worked	

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		PEL	0.050000 mg/m3	OSHA Specifically Regulated Chemicals/Carcinogens	
		1910.1025 If an employ day, the per (TWA) for the formula: Main the day This section provided in pindustry or to OSHA special TWA	missible exposing day, shall be a simum permiss applies to all control paragraph (a)(2) o agricultural offically regulated 2.5 mg/m3	Chemicals/Carcinogens  to lead for more than 8 hours in any woure limit, as a time weighted average expedience according to the following sible limit (in μg/m3 )=400÷hours worked accupational exposure to lead, except a 2). It does not apply to the construction perations covered by 29 CFR part 1928 d carcinogen  USA. Occupational Exposure Limit (OSHA) - Table Z-1 Limits for Air Contaminants	
		TWA	er varies with c 2.5 mg/m3	ompound USA. ACGIH Threshold Limit Valu (TLV)	
		Bone damage Fluorosis Substances for which there is a Biological Exposure Index or Indic (see BEI® section) Not classifiable as a human carcinogen varies			
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Valu	
		Hematologic effects Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans varies			
		PEL	0.05 mg/m3	OSHA Specifically Regulated Chemicals/Carcinogens	
		1910.1025  If an employee is exposed to lead for more than 8 hours in any work day, the permissible exposure limit, as a time weighted average (TWA) for that day, shall be reduced according to the following formula: Maximum permissible limit (in μg/m3 )=400÷hours worked in the day  This section applies to all occupational exposure to lead, except as provided in paragraph (a)(2). It does not apply to the construction industry or to agricultural operations covered by 29 CFR part 1928.  OSHA specifically regulated carcinogen			
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits	
Biological occup	ational exposur	See Append	IIX C		
Component	CAS-No.	Parameters	Value	Biological Basis specimen	
Lead difluoride	7783-46-2	Fluoride	3.0000 mg/g	In urine ACGIH - Biologica Exposure Indices (BEI)	
	Remarks		(16 hours afte	r exposure ceases)	
		Fluoride	10.0000 mg/g	In urine ACGIH - Biologica Exposure Indices (BEI)	
		E 1 6 1 10	/ A	21.1 6	

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End of shift (As soon as possible after exposure ceases)

Fluoride	2 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
Prior to shift (1	6 hours after	r exposure ceases)	
Fluoride	3 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
End of shift (As	s soon as po	ssible after exposure	ceases)

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. **Personal protective equipment** 

# Eve/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: Powder with lumps

Colour: white

b) Odourc) Odour Thresholdd) pHNo data availableNo data available

e) Melting point/freezing Melting point/range: 824 °C (1515 °F) - lit.

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point

f) Initial boiling point and boiling range

No data available

g) Flash point

()Not applicable

h) Evaporation rate

No data available

i) Flammability (solid, gas)

No data available

j) Upper/lower flammability or explosive limits No data available

k) Vapour pressureNo data availableNo data available

m) Relative density 8.445 g/mL at 25 °C (77 °F)

n) Water solubilityo) Partition coefficient: noctanol/water No data available

No data available

p) Auto-ignition temperature

No data available

q) Decomposition temperature

No data available

r) Viscosity No data available
 s) Explosive properties No data available
 t) Oxidizing properties No data available

9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

Reacts dangerously with glass.

#### 10.5 Incompatible materials

acids, Borane/boron oxides, Alkali metals, Fluorine, Carbides, Reacts violently with:, Potassiumglass

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen fluoride, Lead oxides Other decomposition products - No data available

In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - 3,031 mg/kg(Lead difluoride)

Remarks: Behavioral:Muscle weakness. Lungs, Thorax, or Respiration:Respiratory stimulation. Skin and Appendages: Other: Hair.

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No data available(Lead difluoride)

#### Skin corrosion/irritation

No data available(Lead difluoride)

## Serious eye damage/eye irritation

No data available(Lead difluoride)

## Respiratory or skin sensitisation

No data available(Lead difluoride)

## Germ cell mutagenicity

No data available(Lead difluoride)

# Carcinogenicity

IARC: 2A - Group 2A: Probably carcinogenic to humans (Lead difluoride)

3 - Group 3: Not classifiable as to its carcinogenicity to humans (Lead difluoride)

NTP: RAHC - Reasonably anticipated to be a human carcinogenThe reference note has been

added by TD based on the background information of the NTP. (Lead difluoride)

OSHA: OSHA specifically regulated carcinogen (Lead difluoride)

#### Reproductive toxicity

No data available(Lead difluoride)

Known human reproductive toxicant(Lead difluoride)

No data available(Lead difluoride)

### Specific target organ toxicity - single exposure

No data available(Lead difluoride)

## Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

No data available(Lead difluoride)

## **Additional Information**

RTECS: OG1225000

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia.

Lead salts have been reported to cross the placenta and to induce embryo- and feto- mortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive systems. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death., Kidney injury may occur.(Lead difluoride)

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence(Lead difluoride)

## 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

No data available

# 12.2 Persistence and degradability

Biodegradability Result: - Not readily biodegradable.

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## 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available(Lead difluoride)

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

DOT (US)

UN number: 2291 Class: 6.1 Packing group: III
Proper shipping name: Lead compounds, soluble, n.o.s. (Lead difluoride)

Reportable Quantity (RQ) : 10 lbs

Poison Inhalation Hazard: No

**IMDG** 

UN number: 2291 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead difluoride)

Marine pollutant : yes

**IATA** 

UN number: 2291 Class: 6.1 Packing group: III Proper shipping name: Lead compound, soluble, n.o.s. (Lead difluoride)

## 15. REGULATORY INFORMATION

## SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components** 

Lead difluoride CAS-No. Revision Date 7783-46-2 1993-04-24

Pennsylvania Right To Know Components

CAS-No. Revision Date

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Lead difluoride 7783-46-2 1993-04-24

**New Jersey Right To Know Components** 

CAS-No. **Revision Date** 

1993-04-24 Lead difluoride 7783-46-2

California Prop. 65 Components

WARNING! This product contains a chemical known to the CAS-No. **Revision Date** State of California to cause cancer. 7783-46-2 2007-09-28

Lead difluoride

## **16. OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

H300 Fatal if swallowed.

H300 + H310 + Fatal if swallowed, in contact with skin or if inhaled

H330

Fatal in contact with skin. H310

H330 Fatal if inhaled. H350 May cause cancer.

May damage fertility or the unborn child. H360

May cause damage to organs through prolonged or repeated exposure. H373

Very toxic to aquatic life. H400

Very toxic to aquatic life with long lasting effects. H410

**HMIS Rating** 

Health hazard: 4 Chronic Health Hazard: 0 Flammability: Physical Hazard 0

**NFPA Rating** 

4 Health hazard: Fire Hazard: 0 Reactivity Hazard: 0

## **Further information**

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#### **Preparation Information**

Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956

Version: 6.1 Revision Date: 05/28/2017 Print Date: 11/19/2018

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