Chem-Impex International Inc.

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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	30301
NAME:	Lead(II) fluoride
SYNONYMS:	
24 HOUR EMERGENCY TELEPHONE:	(800) 535-5053(USA) 352-323-3500 (INTERNATIONAL)
TO REQUEST AN MSDS:	(800) 869-9290
CUSTOMER SERVICE:	(630) 766-2112

SECTION 2. HAZARDS IDENTIFICATION

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.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



SIGNAL WORD

HAZARD STATEMENT(S)		
H300 + H310 + H330	FATAL IF SWALLOWED, IN CONTACT WITH SKIN OR IF		
	INHALED		
H350	MAY CAUSE CANCER.		
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 STA	TEMENT(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 OR		
	DOCTOR/ PHYSICIAN. 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 OR DOCTOR/ PHYSICIAN.		
P308 + P313	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.		

DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

HAZARDS NOT NONE OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:	PbF ₂
MW:	245.2

CAS-NO. 7783-46-2

PURITY: $\geq 99.9\%$ (Metal basis)

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.

SECTION 4. FIRST-AID MEASURES

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.
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.

P501

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.
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
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	HYDROGEN FLUORIDE, LEAD OXIDES
ADVICE FOR FIREFIGHTERS	WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.
FURTHER INFORMATION	NO DATA AVAILABLE

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.
ENVIRONMENTAL	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE
PRECAUTIONS	TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

METHODS ANDPICK UP AND ARRANGE DISPOSAL WITHOUTMATERIALS FORCREATING DUST. SWEEP UP AND SHOVEL. KEEP INCONTAINMENT ANDSUITABLE, CLOSED CONTAINERS FOR DISPOSAL.CLEANING UPCLOSED CONTAINERS FOR DISPOSAL.

REFERENCE TO OTHER FOR DISPOSAL SEE SECTION 13. **SECTIONS**

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE	AVOID CONTACT WITH SKIN AND EYES. AVOID
HANDLING	FORMATION OF DUST AND AEROSOLS.FURTHER
	PROCESSING OF SOLID MATERIALS MAY RESULT IN
	THE FORMATION OF COMBUSTIBLE DUSTS. THE
	POTENTIAL FOR COMBUSTIBLE DUST FORMATION
	SHOULD BE TAKEN INTO CONSIDERATION BEFORE
	ADDITIONAL PROCESSING OCCURS.
	PROVIDE APPROPRIATE EXHAUST VENTILATION AT
	PLACES WHERE DUST IS FORMED.
	FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND
CONDITIONS FOR SAFE STORAGE, INCLUDING	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.
STORAGE, INCLUDING	WELL-VENTILATED PLACE.
STORAGE, INCLUDING	WELL-VENTILATED PLACE. KEEP IN A DRY PLACE.
STORAGE, INCLUDING	WELL-VENTILATED PLACE. KEEP IN A DRY PLACE. STORAGE CLASS (TRGS 510): NON-COMBUSTIBLE,
STORAGE, INCLUDING	WELL-VENTILATED PLACE. KEEP IN A DRY PLACE. STORAGE CLASS (TRGS 510): NON-COMBUSTIBLE, ACUTE TOXIC CAT.3 / TOXIC HAZARDOUS MATERIALS
STORAGE, INCLUDING ANY INCOMPATIBILITIES	WELL-VENTILATED PLACE. KEEP IN A DRY PLACE. STORAGE CLASS (TRGS 510): NON-COMBUSTIBLE, ACUTE TOXIC CAT.3 / TOXIC HAZARDOUS MATERIALS OR HAZARDOUS MATERIALS CAUSING CHRONIC EFFECTS
STORAGE, INCLUDING	WELL-VENTILATED PLACE. KEEP IN A DRY PLACE. STORAGE CLASS (TRGS 510): NON-COMBUSTIBLE, ACUTE TOXIC CAT.3 / TOXIC HAZARDOUS MATERIALS OR HAZARDOUS MATERIALS CAUSING CHRONIC EFFECTS APART FROM THE USES MENTIONED IN SECTION 1.2
STORAGE, INCLUDING ANY INCOMPATIBILITIES	WELL-VENTILATED PLACE. KEEP IN A DRY PLACE. STORAGE CLASS (TRGS 510): NON-COMBUSTIBLE, ACUTE TOXIC CAT.3 / TOXIC HAZARDOUS MATERIALS OR HAZARDOUS MATERIALS CAUSING CHRONIC EFFECTS

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL	BASIS
			PARAMETERS	
LEAD	7783-46-2	TWA	0.05 MG/M3	USA. ACGIH THRESHOLD
DIFLUORIDE				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 SECTION) CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS VARIES		
	TWA		USA. ACGIH THRESHOLD LIMIT VALUES (TLV)
	HEMATOLOG PERIPHERAL SUBSTANCES EXPOSURE IN (SEE BEI SEC	RVOUS SYSTEM FIC EFFECTS NERVOUS SYST FOR WHICH TH NDEX OR INDICE CTION) ANIMAL CARCIN	IMPAIRMENT EM IMPAIRMENT ERE IS A BIOLOGICAL
	TWA		USA. OCCUPATIONAL EXPOSURE LIMITS (OSHA) - TABLE Z-1 LIMITS FOR AIR CONTAMINANTS
	CAS NUMBE	R VARIES WITH C	COMPOUND
	TWA		USA. OCCUPATIONAL EXPOSURE LIMITS (OSHA) - TABLE Z-2
	Z37.28-1969		
	TWA		USA. ACGIH THRESHOLD LIMIT VALUES (TLV)
	BONE DAMAGE FLUOROSIS SUBSTANCES FOR WHICH THERE IS A BIOLOGICAL EXPOSURE INDEX OR INDICES (SEE BEI SECTION) NOT CLASSIFIABLE AS A HUMAN CARCINOGEN VARIES		
	TWA		USA. NIOSH RECOMMENDED EXPOSURE LIMITS
	SEE APPEND	IX C	
	TWA		USA. ACGIH THRESHOLD LIMIT VALUES (TLV)

1			
	BONE DAMAGE		
	FLUOROSIS		
SUBSTANCE	SUBSTANCES FOR WHICH THERE IS A BIOLOGICAL		
EXPOSURE I	EXPOSURE INDEX OR INDICES		
(SEE BEI SEC	(SEE BEI SECTION)		
NOT CLASSI	NOT CLASSIFIABLE AS A HUMAN CARCINOGEN		
VARIES			
PEL	0.050000 MG/M3 OSHA SPECIFICALLY		
	REGULATED		
	CHEMICALS/CARCINOGENS		
1910.1025			
IF AN EMPLO	IF AN EMPLOYEE IS EXPOSED TO LEAD FOR MORE THAN		
8 HOURS IN A	ANY WORK DAY, THE PERMISSIBLE		
EXPOSURE L	IMIT, AS A TIME WEIGHTED AVERAGE (TWA)		
FOR THAT DA	AY, SHALL BE REDUCED ACCORDING TO THE		
FOLLOWING	FORMULA: MAXIMUM PERMISSIBLE LIMIT		
(IN MG/M3)=	(IN MG/M3)=400 HOURS WORKED IN THE DAY.		
THIS SECTIO	N APPLIES TO ALL OCCUPATIONAL		
EXPOSURE T	O LEAD, EXCEPT AS PROVIDED IN		
PARAGRAPH	(A)(2). IT DOES NOT APPLY TO THE		
CONSTRUCT	ION INDUSTRY OR TO AGRICULTURAL		
OPERATIONS	S COVERED BY 29 CFR PART 1928. OSHA		
	LY REGULATED CARCINOGEN		
1			

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	CAS-NO.	PARAMETERS	VALUE		BASIS
				SPECIMEN	
LEAD	7783-46-2	FLUORIDE	3.0000	IN URINE	ACGIH -
DIFLUORIDE			MG/G		BIOLOGICAL
					EXPOSURE
					INDICES
					(BEI)
	REMARKS	PRIOR TO SHIF	Т (16 НО	URS AFTER EXP	OSURE CEASES)
		FLUORIDE	10.0000	IN URINE	ACGIH -
			MG/G		BIOLOGICAL
					EXPOSURE
					INDICES
					(BEI)
		END OF SHIFT	(AS SOO	N AS POSSIBLE A	AFTER EXPOSURE
		CEASES)			
		FLUORIDE	2 MG/L	URINE	ACGIH -
					BIOLOGICAL
					EXPOSURE
					INDICES
					(BEI)
		PRIOR TO SHIFT (16 HOURS AFTER EXPOSURE CEASES)		OSURE CEASES)	
		FLUORIDE	3 MG/L	URINE	ACGIH -
					BIOLOGICAL
					EXPOSURE
					INDICES
					(BEI)
		END OF SHIFT (AS SOON AS POSSIBLE AFTER EXPOSURE			
		CEASES)			

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS	AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.				
PERSONAL PROTECTIV	PERSONAL PROTECTIVE EQUIPMENT				
EYE/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, SIZE M)				
	SPLASH CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)				
	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 INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC 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 A FULL-FACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A 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	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO
ENVIRONMENTAL	SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO
EXPOSURE	THE ENVIRONMENT MUST BE AVOIDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

	I II I SICALAND CHEMICAL I KOI E
APPEARANCE	White powder
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	855 °C
POINT/FREEZING POINT	
INITIAL BOILING POINT	1290 °C
AND BOILING RANGE	
FLASH POINT	
EVAPORATION RATE	NO DATA AVAILABLE
FLAMMABILITY (SOLID,	NO DATA AVAILABLE
GAS)	
UPPER/LOWER	NO DATA AVAILABLE
FLAMMABILITY OR	
EXPLOSIVE LIMITS	
VAPOUR PRESSURE	NO DATA AVAILABLE
VAPOUR DENSITY	NO DATA AVAILABLE
RELATIVE DENSITY	8.445
WATER SOLUBILITY	NO DATA AVAILABLE
PARTITION COEFFICIENT:	NO DATA AVAILABLE
N- OCTANOL/WATER	
AUTO-IGNITION	NO DATA AVAILABLE
TEMPERATURE	
DECOMPOSITION	NO DATA AVAILABLE
TEMPERATURE	
VISCOSITY	NO DATA AVAILABLE
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE
OXIDIZING PROPERTIES	NO DATA AVAILABLE
OTHER SAFETY	NO DATA AVAILABLE
INFORMATION	

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	NO DATA AVAILABLE
CHEMICAL STABILITY	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DATA AVAILABLE
CONDITIONS TO AVOID	NO DATA AVAILABLE
INCOMPATIBLE MATERIALS	ACIDS, BORANE/BORON OXIDES, ALKALI METALS, FLUORINE, CARBIDES, REACTS VIOLENTLY WITH:, POTASSIUM
HAZARDOUS DECOMPOSITION PRODUCTS	OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	LD50 ORAL - RAT - 3,031 MG/KG
	REMARKS: BEHAVIORAL:MUSCLE WEAKNESS.
	LUNGS, THORAX, OR RESPIRATION: RESPIRATORY
	STIMULATION. SKIN AND APPENDAGES: OTHER:
	HAIR.

SKIN NO DATA AVAILABLE CORROSION/IRRITATION

SERIOUS EYE NO DATA AVAILABLE DAMAGE/EYE IRRITATION

RESPIRATORY OR SKIN NO DATA AVAILABLE **SENSITISATION**

GERM CELL NO DATA AVAILABLE MUTAGENICITY

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:	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 TOXICITYREPRODUCTIVE TOXICITY - RAT - INHALATION
PATERNAL EFFECTS: SPERMATOGENESIS (INCLUDING
GENETIC MATERIAL, SPERM
MORPHOLOGY,MOTILITY, AND COUNT). EFFECTS ON
EMBRYO OR FETUS: FETOTOXICITY (EXCEPT DEATH,
E.G., STUNTED FETUS).
REPRODUCTIVE TOXICITY - RAT - INHALATION
EFFECTS ON FERTILITY: POST-IMPLANTATION
MORTALITY (E.G., DEAD AND/OR RESORBED
IMPLANTS PER TOTAL NUMBER OF IMPLANTS).
EFFECTS ON EMBRYO OR FETUS: FETAL DEATH.
KNOWN HUMAN REPRODUCTIVE TOXICANT

SPECIFIC TARGET ORGAN
TOXICITY - SINGLE
EXPOSURENO DATA AVAILABLESPECIFIC TARGET ORGAN
TOXICITY - REPEATED
EXPOSUREMAY CAUSE DAMAGE TO ORGANS THROUGH
PROLONGED OR REPEATED EXPOSURE.

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL RTECS: OG1225000 INFORMATION 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. STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITYRESULT: - NOT READILY BIODEGRADABLE.BIODEGRADABILITYNO DATA AVAILABLEBIOACCUMULATIVE
POTENTIALNO DATA AVAILABLEMOBILITY IN SOILNO DATA AVAILABLERESULTS OF PBT AND
VPVB ASSESSMENTPBT/VPVB ASSESSMENT NOT AVAILABLE AS
CHEMICAL SAFETY ASSESSMENT NOT
REQUIRED/NOT CONDUCTED

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.

SECTION 13. DISPOSAL CONSIDERATIONS

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 CHEMICAL INCINERATOR EQUIPPED WITH AN
	AFTERBURNER AND SCRUBBER.
	IN A CHEMICAL INCINERATOR EQUIPPED WITH AN

CONTAMINATED DISPOSE OF AS UNUSED PRODUCT. PACKAGING

SECTION 14. TRANSPORT INFORMATION

DOT (US) PROPER SHIPPING NAME: UN NUMBER: CLASS: PACKING GROUP: REPORTABLE QUANTITY (RQ): POISON INHALATION HAZARD:	LEAD COMPOUNDS, SOLUBLE, N.O.S.(Lead(II) fluoride) 2291 6.1 III 10 LBS NO
IMDG PROPER SHIPPING NAME: UN NUMBER: CLASS: PACKING GROUP: EMS-NO: MARINE POLLUTANT:	LEAD COMPOUND, SOLUBLE, N.O.S.(Lead(II) fluoride) 2291 6.1 III F-A, S-A YES
IATA PROPER SHIPPING NAME: UN NUMBER: CLASS: PACKING GROUP:	LEAD COMPOUND, SOLUBLE, N.O.S.(Lead(II) fluoride) 2291 6.1 III

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	NO CHEMICALS IN THIS MA THE REPORTING REQUIREN SECTION 302.		
SARA 313 COMPONENTS	THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DEMINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.		
SARA 311/312 HAZARDS	ACUTE HEALTH HAZARD, O	ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD	
MASSACHUSETTS RIGHT	TO KNOW COMPONENTS		
	CAS-NO.	REVISION DATE	
Lead(II) fluoride	7783-46-2	4/24/1993	
PENNSYLVANIA RIGHT TO) KNOW COMPONENTS		
PENNSYLVANIA RIGHT TO) KNOW COMPONENTS CAS-NO.	REVISION DATE	
PENNSYLVANIA RIGHT TO Lead(II) fluoride		REVISION DATE 4/24/1993	
	CAS-NO. 7783-46-2		
Lead(II) fluoride	CAS-NO. 7783-46-2		
Lead(II) fluoride	CAS-NO. 7783-46-2 NOW COMPONENTS	4/24/1993	
Lead(II) fluoride NEW JERSEY RIGHT TO K	CAS-NO. 7783-46-2 NOW COMPONENTS CAS-NO.	4/24/1993 REVISION DATE 4/24/1993 CONTAINS A CHEMICAL	

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEM	IENTS REFERRED TO UNDER SECTIONS 2 AND 3.
ACUTE TOX.	ACUTE TOXICITY
AQUATIC ACUTE	ACUTE AQUATIC TOXICITY
AQUATIC CHRONIC	CHRONIC AQUATIC TOXICITY
CARC.	CARCINOGENICITY
H300	FATAL IF SWALLOWED.
H300 + H310 + H330	FATAL IF SWALLOWED, IN CONTACT WITH SKIN OR IF
	INHALED
H310	FATAL IN CONTACT WITH SKIN.
H330	FATAL IF INHALED.
H350	MAY CAUSE CANCER.
H360	MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

HMIS RATING

HEALTH HAZARD:	4
CHRONIC HEALTH	*
HAZARD:	
FLAMMABILITY:	0
PHYSICAL HAZARD	0

NFPA RATING

HEALTH HAZARD:	4
FIRE HAZARD:	0
REACTIVITY HAZARD:	0

MSDS LEGEND	
MW:	MOLECULAR WEIGHT
MF:	MOLECULAR FORMULA
VOC:	VOLATILE ORGANIC COMPOUNDS
ACGIH:	AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL
	HYGINISTS
CAS:	CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA:	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL:	PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV:	THRESHOLD LIMIT VALUE (ACGIH)
IMDODTANT.	

IMPORTANT:

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