

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier						
Name of the substance	Lead chloride (PbCl2)					
Identification number	082-001-00-6 (Index number)					
Synonyms	Lead chloride (PbCl2) * Lead dichloride * LEAD CHLORIDE * Lead (II) chloride					
Document number	1MJ					
Materion Code	1MJ					
Issue date	22-December-2015					
Version number	03					
Revision date	11-January-2018					
Supersedes date	11-January-2018					
1.2. Relevant identified uses of	the substance or mixture and uses advised against					
Identified uses	Not available.					
Uses advised against	None known.					
1.3. Details of the supplier of t	he safety data sheet					
Supplier						
Company name	Materion Advanced Chemicals Inc.					
Address	407 N. 13th Street					
	1316 W. St. Paul Avenue					
	Milwaukee, WI 53233					
	United States					
Division	Milwaukee					

DivisionMilwaukeeTelephone414.212.0257e-mailadvancedmaterials@materion.comContact personNoreen Atkinson1.4. Emergency telephone

1.4. Emergency telephone

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classificatior applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards Acute toxicity, oral Category 4 H302 - Harmful if swallowed. H332 - Harmful if inhaled. Acute toxicity, inhalation Category 4 Carcinogenicity Category 1B H350 - May cause cancer. Reproductive toxicity (fertility, the unborn Category 1A H360FD - May damage fertility. May damage the unborn child. child) H373 - May cause damage to Specific target organ toxicity - repeated Category 2 exposure organs through prolonged or repeated exposure. **Environmental hazards** Hazardous to the aquatic environment, acute Category 1 H400 - Very toxic to aquatic life. aquatic hazard Hazardous to the aquatic environment, Category 1 H410 - Very toxic to aquatic life long-term aquatic hazard with long lasting effects.

Hazard summaryHarmful if inhaled. Harmful if swallowed. May cause damage to organs through prolonged or
repeated exposure. May cause cancer. Exposure to powder or dusts may be irritating to eyes, nose
and throat. May cause reproductive effects. Prolonged exposure may cause chronic effects.
Dangerous for the environment if discharged into watercourses. Occupational exposure to the
substance or mixture may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:

Hazard pictograms





Signal word	Danger
Hazard statements	
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash 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.
Response	
P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	For further information, please contact the Product Stewardship Department at +1.800.862.4118.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Lead chloride (PbCl2)	90 - 100	7758-95-4 231-845-5	-	082-001-00-6	#
Classification:	Acute Tox. 4;H302, Acut 2;H373, Aquatic Acute 1		c. 1B;H350, Repr. 1A;H360FI onic 1;H410), STOT RE	1,A

List of abbreviations and symbols that may be used above

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid mea	asures
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
4.1. Description of first aid me	asures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTRE or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic effects.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
SECTION 5: Firefighting	measures
General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special firefighting procedures	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6.1. Personal precautions, protective equipment and emergency procedures

office and be contracted and be been and be	cente equipment and emergency procedures
For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Do not breathe dust. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Material	Туре	Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	МАК	0,1 mg/m3	Inhalable fraction.
	STEL	0,4 mg/m3	Inhalable fraction.
Belgium. Exposure Limit Values.	T	Malua	Eo.ma
Material	Туре	Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	Dust and fume.
Bulgaria. OELs. Regulation No 13 c Material	on protection of workers a Type	gainst risks of exposure to o Value	hemical agents at wo
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,05 mg/m3	
Croatia. Dangerous Substance Exp 13/09	osure Limit Values in the	Workplace (ELVs), Annexes	1 and 2, Narodne Nov
Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	MAC	0,15 mg/m3	
Czech Republic. OELs. Government	t Decree 361		
Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	Ceiling	0,2 mg/m3	
	TWA	0,05 mg/m3	
Denmark. Exposure Limit Values	_		
Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TLV	0,05 mg/m3	
Estonia. OELs. Occupational Expos	ure Limits of Hazardous S	ubstances. (Annex of Regula	ation No. 293 of 18
September 2001) Material	Туре	Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,1 mg/m3	Total dust.
-		0,05 mg/m3	Respirable dust.
Finland. Workplace Exposure Limit Material	s Type	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,1 mg/m3	
France. Threshold Limit Values (VL Material	EP) for Occupational Expo Type	osure to Chemicals in France Value	e, INRS ED 984
Lead chloride (PbCl2) (CAS	VME	0,1 mg/m3	

Greece. OELs (Decree No. 90/1999, as a Material	amended) Type	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Hungary. OELs. Joint Decree on Chemic Material	al Safety of Workplaces Type	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Iceland. OELs. Regulation 154/1999 on Material	occupational exposure limit Type	ts Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,05 mg/m3	Dust and fume.
Ireland. Occupational Exposure Limits Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Italy. Occupational Exposure Limits Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Lithuania. OELs. Limit Values for Chem Material	ical Substances, General Red Type	quirements Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	Inhalable fraction.
-		0,07 mg/m3	Respirable fraction.
Luxembourg. Binding Occupational exp Material	osure limit values (Annex I) Type	, Memorial A Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Malta. OELs. Occupational Exposure Lin 424), Schedules I and V)	-	-	Safety Authority Act (CAP.
Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Netherlands. OELs (binding) Material	Туре	Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	Dust and fume.
Norway. Administrative Norms for Cont Material	aminants in the Workplace Type	Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)	TLV	0,05 mg/m3	Dust and fume.
Poland. MACs. Regulation regarding ma work environment, Annex 1	aximum permissible concent	rations and intensitie	s of harmful factors in the
Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,05 mg/m3	
Portugal. Decree-Law No. 24/2012, Bin I.a série - No. 26)		·	I (Diário da República -
Material	Туре	Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,15 mg/m3	
Portugal. VLEs. Norm on occupational e Material	exposure to chemical agents Type	(NP 1796) Value	
Lead chloride (PbCl2) (CAS 7758-95-4)	TWA	0,05 mg/m3	

Romania. OELs. Protecti Material		Туре			Value	
Lead chloride (PbCl2) (CAS 7758-95-4)		STEL			0,1 mg/m3	
		TWA			0,05 mg/m3	
Slovakia. OELs. Regulati Material	on No. 300/20	07 conc Type	erning protection		in work with c Value	hemical agents Form
Lead chloride (PbCl2) (CAS 7758-95-4)		TWA			0,5 mg/m3	Inhalable fraction.
					0,15 mg/m3	Respirable fraction.
Slovenia. OELs. Regulati				against risk	s due to expos	sure to chemicals while
working (Official Gazett Material	e of the Republ	Type	ovenia)		Value	Form
Lead chloride (PbCl2) (CAS 7758-95-4)		TWA			0,1 mg/m3	Inhalable fraction.
Spain. Occupational Exp	osure Limits					
Material		Туре			Value	
Lead chloride (PbCl2) (CAS 7758-95-4)		TWA			0,15 mg/m3	
Sweden. OELs. Work Env Material	vironment Auth	nority (A Type	V), Occupation	-	Limit Values (/ Value	AFS 2015:7) Form
Lead chloride (PbCl2) (CAS		TWA			0,1 mg/m3	Inhalable dust.
7758-95-4)					0,05 mg/m3	Respirable dust.
Switzerland. SUVA Gren Material	zwerte am Arbo	eitsplat: Type	2		Value	Form
Lead chloride (PbCl2) (CAS		STEL			0,8 mg/m3	Inhalable dust.
7758-95-4)		TWA			0,1 mg/m3	Inhalable dust.
UK. EH40 Workplace Ex Material	oosure Limits (V	WELs) Type			Value	
Lead chloride (PbCl2) (CAS 7758-95-4)		TWA			0,15 mg/m3	
EU. Directive 98/24/EC:	on the protect	ion of w	orkers from th	e risks relate	ed to chemical	agents at work, Annex
List of Binding Occupation	onal Exposure I		lues			
Material		Туре			Value	
Lead chloride (PbCl2) (CAS 7758-95-4)		TWA			0,15 mg/m3	
logical limit values Finland. HTP-arvot, App	2., Biological I	Limit Va	lues, (BRA/BG)	/) , Social Af	fairs and Minis	strv of Health
Material	Value		Determinant	Specimen		
Lead chloride (PbCl2) (CAS 7758-95-4)	1,4 umol/l		Lead	Blood	*	
* - For sampling details, ple	ase see the sour	rce docur	nent.			
Germany. TRGS 903, BA		al Limit	-	. .	• ••	
Material	Value		Determinant	Specimen		time
Lead chloride (PbCl2) (CAS 7758-95-4)			Blei	Blood	*	
* - For sampling details, ple						
Hungary. Chemical Safe		e Ordina	ince Joint Decre	ee No. 25/20	000 (Annex 2):	Permissible limit value
of biological exposure (e Material	Value		Determinant	Specimen	Sampling	time
Lead chloride (PbCl2) (CAS 7758-95-4)			lead	Blood	*	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,5 µmol/l		lead	Blood	*	

Material	Value	Determinant	Specimen	
	100 µmol/mol hb	zinc protoporphyrin (for pre-screening)	Hemoglobin in blood	
* - For sampling details, ple	ase see the source de	ocument.		
Luxembourg. Biological Material	limit values (Annex Value	t II), Memorial A, n Determinant	. 96, p. 1948 Specimen	
Lead chloride (PbCl2) (CAS 7758-95-4)	70 ug/ml	Pb	Blood	
	o. 24/2012, Binding	g Biological Limit V	alues, Annex II	I (Diário da República - I.a série - N
26)				
-	Value	Determinant	Specimen	
26) Material Lead chloride (PbCl2) (CAS 7758-95-4)		Determinant Chumbo	Specimen Blood	
Material Lead chloride (PbCl2) (CAS 7758-95-4) Slovakia. BLVs (Biologic	70 µg/100 ml al Limit Value). Reg	Chumbo	Blood	protection of workers exposed to
Material Lead chloride (PbCl2) (CAS 7758-95-4) Slovakia. BLVs (Biologic chemical agents, Annex	70 µg/100 ml al Limit Value). Reg	Chumbo	Blood	protection of workers exposed to Sampling time
Material Lead chloride (PbCl2) (CAS 7758-95-4) Slovakia. BLVs (Biologic chemical agents, Annex Material Lead chloride (PbCl2) (CAS	70 µg/100 ml al Limit Value). Reg 2 Value	Chumbo	Blood 06 concerning	
Material Lead chloride (PbCl2) (CAS 7758-95-4) Slovakia. BLVs (Biologic chemical agents, Annex Material Lead chloride (PbCl2) (CAS	70 µg/100 ml al Limit Value). Reg 2 Value	Chumbo gulation no. 355/20 Determinant	Blood 06 concerning Specimen	Sampling time
Material Lead chloride (PbCl2) (CAS 7758-95-4) Slovakia. BLVs (Biologic chemical agents, Annex Material Lead chloride (PbCl2) (CAS	70 µg/100 ml al Limit Value). Reg 2 Value 100 µg/l	Chumbo gulation no. 355/20 Determinant Lead δ-Aminolevulini	Blood Blood Blood Blood Creatinine in	Sampling time
Material Lead chloride (PbCl2) (CAS 7758-95-4)	70 μg/100 ml al Limit Value). Reg 2 Value 100 μg/l 4,03 mg/g	Chumbo gulation no. 355/20 Determinant Lead δ-Aminolevulini c acid	Blood Blood Specimen Blood Creatinine in urine Creatinine in	Sampling time *

* - For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4MaterialValueDeterminantSpecimenSampling time

Lead chloride (PbCl2) (CAS 70 µg/c 7758-95-4)	ll Plomo	Blood	*	

* - For sampling details, please see the source document.

EU. Directive 98/24/EC: on the protection of workers from the risks related to chemical agents at work, Annex II Binding Biological Limit Values and Health Surveillance Measures

Material	Value	Determinant	Specimen
Lead chloride (PbCl2) (CAS 7758-95-4)	70 µg/100 ml	Lead	Blood
Recommended monitoring procedures	Follow standard r	nonitoring procedures	5.
Derived no effect levels (DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	be matched to co engineering contr limits have not be measures are not (occupational exp cut, or used in ar	nditions. If applicable rols to maintain airbor een established, maint sufficient to maintair posure limit), suitable ny operation which ma	ir changes per hour) should be used. Ventilation rates should by use process enclosures, local exhaust ventilation, or other ne levels below recommended exposure limits. If exposure tain airborne levels to an acceptable level. If engineering a concentrations of dust particulates below the OEL respiratory protection must be worn. If material is ground, ay generate dusts, use appropriate local exhaust ventilation nded exposure limits.
Individual protection measu	ires, such as persor	al protective equip	ment
General information			required. Personal protection equipment should be chosen discussion with the supplier of the personal protective
Eye/face protection	Chemical respirat	or with organic vapou	r cartridge, full facepiece, dust and mist filter.

Skin protection

- Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
- Other	Wear suitable protective clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Jin Internation on Busic phys	ical and chemical propert	
Appearance		
Physical state	Solid.	
Form	Powder.	
Colour	Not available.	
Odour	Not available.	
Odour threshold Not available.		
рН	Not available.	
Melting point/freezing point	501 °C (933,8 °F)	
Initial boiling point and boiling range	950 °C (1742 °F)	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or e	xplosive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Vapour pressure	< 0,0000001 kPa at 25 °C	
Vapour density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Explosive properties	Not explosive.	
Oxidising properties	Not oxidising.	
9.2. Other information		
Density	5,85 g/cm3	
Molecular formula	Cl2-Pb	
Molecular weight	278,11 g/mol	
Specific gravity	5,85	

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.

10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational e	exposure to the substance or mixture may	cause adverse effects.
Information on likely routes of	fexposure		
Inhalation	Harmful if inha inhalation.	led. May cause damage to organs through	n prolonged or repeated exposure by
Skin contact	Dust or powder may irritate the skin.		
Eye contact	Dust may irrita	te the eyes.	
Ingestion	Harmful if swa	llowed.	
Symptoms	Dusts may irrit	ate the respiratory tract, skin and eyes.	
11.1. Information on toxicolog	ical effects		
Acute toxicity	Harmful if inha	led. Harmful if swallowed.	
Skin corrosion/irritation	Due to partial	or complete lack of data the classification	is not possible.
Serious eye damage/eye irritation	Due to partial	or complete lack of data the classification	is not possible.
Respiratory sensitisation	Due to partial	or complete lack of data the classification	is not possible.
Skin sensitisation	Due to partial	or complete lack of data the classification	is not possible.
Germ cell mutagenicity	Due to partial	or complete lack of data the classification	is not possible.
Carcinogenicity	May cause can		
at work (as amended)	dinance on pro	otection against and preventing risk r	elating to exposure to carcinogens
Not listed.		• •••••••••••••••••••••••••••••••••••	
IARC Monographs. Overall			to humana
Lead chloride (PbCl2) (CA	-	2A Probably carcinogenic	to numans.
Reproductive toxicity		ertility. May damage the unborn child. protection of workers against risks du	a to ovnocuro to chomicale while
working (Official Gazette o	of the Republic	of Slovenia)	-
Lead chloride (PbCl2) (CA		Toxic for reproduction - o	- /
 Specific target organ toxicity single exposure 	Due to partial	or complete lack of data the classification	is not possible.
Specific target organ toxicity - repeated exposure	May cause dan	nage to organs through prolonged or repe	ated exposure.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.		
Mixture versus substance information	No information available.		
Other information	Not available.		
SECTION 12: Ecological i	nformation		
12.1. Toxicity	Very toxic to a	quatic life with long lasting effects.	
Product		Species	Test results
Lead chloride (PbCl2) (CAS 7758-9	5-4)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0,12 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	2,4 mg/l, 96 hours
* Ectimates for product may b	e hased on addi	tional component data not shown.	
12.2. Persistence and		lable on the degradability of this product.	

No data available.
Not available.
Not available.
No data available.

Material name: Lead chloride (PbCl2)

1MJ Version #: 03 Revision date: 11-January-2018 Issue date: 22-December-2015

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.7. Additional information

Estonia Dangerous substances in groundwater Data		
Lead chloride (PbCl2) (CAS 7758-95-4)	Lead (Pb) 10 UG/L Lead (Pb) 200 UG/L	
Estonia Dangerous substances in soil Data		
Lead chloride (PbCl2) (CAS 7758-95-4)	Lead (Pb) 300 mg/kg Lead (Pb) 50 mg/kg Lead (Pb) 600 mg/kg	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN2291
14.2. UN proper shippiı	g Lead compound, soluble, n.o.s. (Lead chloride (PbCl2))
name	
14.3. Transport hazard	class(es)
Class	6.1(PGIII)
Subsidiary risk	-
Label(s)	6.1
Hazard No. (ADR)	60
Tunnel restriction	E
code	
14.4. Packing group	III
14.5. Environmental	No.
hazards	
14.6. Special precautio	IS Read safety instructions, SDS and emergency procedures before handling.
for user	
RID	
14.1. UN number	UN2291
14.2. UN proper shippir	g Lead compound, soluble, n.o.s. (Lead chloride (PbCl2))
name	
name 14.3. Transport hazard	class(es)
name 14.3. Transport hazard Class	
name 14.3. Transport hazard Class Subsidiary risk	class(es) 6.1(PGIII)
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14.3. Transport hazard class(es) Class 6.1(PGIII) Subsidiary risk Label(s) 6.1 14.4. Packing group III 14.5. Environmental No. hazards 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ΙΑΤΑ 14.1. UN number UN2291 14.2. UN proper shipping Lead compound, soluble, n.o.s. (Lead chloride (PbCl2)) name 14.3. Transport hazard class(es) Class 6.1(PGIII) Subsidiary risk 14.4. Packing group III 14.5. Environmental No. hazards **ERG Code** 6L 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **Other information Passenger and cargo** Allowed with restrictions. aircraft Cargo aircraft only Allowed with restrictions. IMDG 14.1. UN number UN2291 14.2. UN proper shipping LEAD COMPOUND, SOLUBLE, N.O.S. (Lead chloride (PbCl2)), MARINE POLLUTANT name 14.3. Transport hazard class(es) Class 6.1(PGIII) Subsidiary risk 14.4. Packing group III 14.5. Environmental hazards Marine pollutant Yes EmS F-A, S-A 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Lead chloride (PbCl2) (CAS 7758-95-4)

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Lead chloride (PbCl2) (CAS 7758-95-4)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Lead chloride (PbCl2) (CAS 7758-95-4)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Lead chloride (PbCl2) (CAS 7758-95-4)

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws Pregnant women should not work with the product, if there is the least risk of exposure. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. This product is not in compliance with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment (RoHS).
National regulations	Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
Information on evaluation method leading to the	Not applicable.
classification of mixture	

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