

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product name: Lead Chromate
CAS Number: 7758-97-6
EC Number: 231-846-0

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

Product use: Laboratory chemicals, Industrial & for professional use only

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd
20 Clough Road, Severalls Industrial Park
Colchester, Essex, CO4 9QS
United Kingdom

Telephone: +44 (0) 333 242 0100
Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Carcinogenicity (Category 1B), H350

Reproductive toxicity (Category 1A), H360Df

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 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger



Lead Chromate

Hazard statement(s)

H350	May cause cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting

Precautionary statement(s)

P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements
None
Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

Section 3: Composition/information on ingredients

3.1 Substances

Formula:	CrO ₄ Pb
Molecular weight:	323.18 g/mol
CAS-No.:	7758-97-6
EC-No.:	231-846-0
Index-No.:	082-004-00-2
Hazardous ingredients according to Regulation (EC) No 1272/2008	

Component	Classification	Concentration
Lead chromate	Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)	
CAS-No. 7758-97-6	Carc. 1B; Repr. 1A; STOT RE	<= 100 %
EC-No. 231-846-0	2; Aquatic Acute 1; Aquatic	
Index-No. 082-004-00-2	Chronic 1; H350, H360Df, H373, H400, H410	
	M-Factor - Aquatic Acute: 10	

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

Section 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.

If inhaled

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



Lead Chromate

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

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

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Lead oxides, Chromium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. 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 material for containment and cleaning up

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



Lead Chromate

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. 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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

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

Section 8: Exposure controls/personal protection

8.1 Control parameters

No additional information available

8.2 Exposure controls /

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 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.

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 the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



Lead Chromate

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.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: powder
	Colour: dark yellow
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point	No data available
Initial Boiling Point and Boiling Range	No data available
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	6.300 g/cm ³
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available

Section 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	No data available
10.5 Incompatible materials	Organic materials, Powdered metals
10.6 Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Lead oxides, Chromium oxides Other decomposition products - No data available. In the event of fire: see section 5



Lead Chromate

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	LD50 Oral - Mouse - > 12,000 mg/kg (Lead chromate)
Skin corrosion/irritation	No data available (Lead chromate)
Serious eye damage/eye irritation	No data available (Lead chromate)
Respiratory or skin sensitisation	No data available (Lead chromate)
Germ cell mutagenicity	No data available (Lead chromate)
Carcinogenicity	
Human carcinogen. (Lead chromate)	
(Lead chromate)	
IARC:	1 - Group 1: Carcinogenic to humans (Lead chromate) 2A - Group 2A: Probably carcinogenic to humans (Lead chromate)
IARC:	1 - Group 1: Carcinogenic to humans (Lead chromate) 2A - Group 2A: Probably carcinogenic to humans (Lead chromate)

Reproductive toxicity	Known human reproductive toxicant (Lead chromate)
Specific target organ toxicity - single exposure	No data available (Lead chromate)
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure. No data available
Aspiration hazard	No data available (Lead chromate)

Additional Information

RTECS: GB2975000 Lead salts have been reported to cross the placenta and to induce embryo- and fetomortality. 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 foetal development, and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive systems. The synthesis of haemoglobin 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, diarrhoea, 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. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Lead chromate)

Section 12: Ecological Information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available (Lead chromate)
12.5 Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	Very toxic to aquatic life



Lead Chromate

Tunnel restriction code (ADR):	-
EAC code:	2Z
- Transport by sea	
Special provisions (IMDG):	274, 335, 966, 967, 969
Limited quantities (IMDG):	5 kg
Excepted quantities (IMDG):	E1
Packing instructions (IMDG):	LP02, P002
Special packing provisions (IMDG):	PP12
IBC packing instructions (IMDG):	IBC08
IBC special provisions (IMDG):	B3
Tank instructions (IMDG):	BK1, BK2, BK3, T1
Tank special provisions (IMDG):	TP33
EmS-No. (Fire):	F-A
EmS-No. (Spillage):	S-F
Stowage category (IMDG):	A
Stowage and handling (IMDG):	SW23
MFAG-No:	171
- Air transport	
PCA Excepted quantities (IATA):	E1
PCA Limited quantities (IATA):	Y956
PCA limited quantity max net quantity (IATA):	30kgG
PCA packing instructions (IATA):	956
PCA max net quantity (IATA):	400kg
CAO packing instructions (IATA):	956
CAO max net quantity (IATA):	400kg
Special provisions (IATA):	A97, A158, A179, A197
ERG code (IATA):	9L
- Inland waterway transport	
Classification code (ADN):	M7
Special provisions (ADN):	274, 335, 375, 601
Limited quantities (ADN):	5 kg
Excepted quantities (ADN):	E1
Carriage permitted (ADN):	T* B**
Equipment required (ADN):	PP, A
Number of blue cones/lights (ADN):	0
Additional requirements/Remarks (ADN):	
* Only in the molten state. ** For carriage in bulk see also 7.1.4.1. *** Only in the case of transport in bulk.	
- Rail transport	
Classification code (RID):	M7
Special provisions (RID):	274, 335, 375, 601
Excepted quantities (RID):	E1
Packing instructions (RID):	P002, IBC08, LP02, R001
Special packing provisions (RID):	PP12, B3
Mixed packing provisions (RID):	MP10
Portable tank and bulk container instructions (RID):	T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID):	TP33
Tank codes for RID tanks (RID):	SGAV, LGBV
Transport category (RID):	3



Lead Chromate

Special provisions for carriage – Packages (RID):	W13
Special provisions for carriage – Bulk (RID):	VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID):	CW13, CW31
Colis express (express parcels) (RID):	CE11
Hazard identification number (RID):	90

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

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

H350	May cause cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
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.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.