



## SAFETY DATA SHEET

### BASIC LEAD ACETATE SOLUTION

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Compilation date: 03/10/2011

Sent to: AB Azucarera

Revision No: 1

#### Section 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name:** BASIC LEAD ACETATE SOLUTION

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

**Use of substance / mixture:** Industrial uses only. Manufacture of substances. Laboratory reagent.

##### 1.3. Details of the supplier of the safety data sheet

**Company name:** Celtic Chemicals Limited

Unit 25

Kenfig Industrial estate

Margam

Port Talbot

SA13 2PE

United Kingdom

**Tel:** +44 (0) 1656 749358

**Fax:** +44 (0) 1656 746490

**Email:** [sales@celticchemicals.co.uk](mailto:sales@celticchemicals.co.uk)

##### 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1656 749358

(office hours only)

#### Section 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**Classification under CHIP:** T: R61; Xn: R20/22; Xn: R33; Xn: R40; Xn: R48/22; N: R50/53; Xn: R62

**Classification under CLP:** Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351; Repr. 1A: H360Df; STOT RE 2: H373

**Most important adverse effects:** May cause harm to the unborn child. Harmful by inhalation and if swallowed. Danger of cumulative effects. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility.

##### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** H351: Suspected of causing cancer.

H360Df: May damage the unborn child. Suspected of damaging fertility.

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

[cont...]

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H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Signal words:** Danger

**Hazard pictograms:** GHS08: Health hazard  
GHS09: Environmental



**Precautionary statements:** P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
P273: Avoid release to the environment.  
P281: Use personal protective equipment as required.  
P314: Get medical advice/attention if you feel unwell.  
P308+313: IF exposed or concerned: Get medical advice/attention.

**Label elements under CHIP:**

**Hazard symbols:** Toxic.

Dangerous for the environment.



**Risk phrases:** R61: May cause harm to the unborn child.  
R20/22: Harmful by inhalation and if swallowed.  
R33: Danger of cumulative effects.  
R40: Limited evidence of a carcinogenic effect.  
R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R62: Possible risk of impaired fertility.

**Safety phrases:** S36/37: Wear suitable protective clothing and gloves.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S53: Avoid exposure - obtain special instructions before use.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**Precautionary phrases:** Restricted to professional users.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT substance.

[cont...]

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**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients:**

LEAD ACETATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-630-3	1335-32-6	T: R61; Xn: R33; Xn: R40; Xn: R48/22; N: R50/53; Xn: R62	Carc. 2: H351; Repr. 1A: H360Df; STOT RE 2: H373; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	10-30%

LEAD COMPOUNDS WITH THE EXCEPTION OF THOSE SPECIFIED ELSEWHERE IN THE ASL

-	-	T: R61; Xn: R20/22; Xn: R33; Xn: R62; N: R50/53	Repr. 1A: H360Df; Acute Tox. 4: H332; Acute Tox. 4: H302; STOT RE 2: H373; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-10%
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**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Immediate / special treatment:** Not applicable.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

[cont...]

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**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:**

[cont...]

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**LEAD ACETATE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.15 mg/m <sup>3</sup>	-	-	-

**8.1. DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves. Glove thickness: 0.11 mm. Break through time: >480 min. Glove material: Nitrile rubber.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** White

**Odour:** Odourless

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat.

[cont...]

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**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes. Carbon oxides, Lead oxides

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:**

Route	Species	Test	Value	Units
ORAL	Guinea pig	LD50	1330	mg/kg

**Hazardous ingredients:**

**LEAD ACETATE**

ORAL	RAT	LD50	4665	mg/kg
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**Relevant effects for mixture:**

Effect	Route	Basis
Acute toxicity (harmful)	INH ING	Hazardous: calculated
Repeated dose toxicity	--	Hazardous: calculated
Toxicity for reproduction	--	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other 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.

**Section 12: Ecological information**

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**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** Not biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** Bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT substance.

**12.6. Other adverse effects**

**Other adverse effects:** Toxic to aquatic organisms. Toxic to soil organisms.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN2810

**14.2. UN proper shipping name**

**Shipping name:** TOXIC LIQUID, ORGANIC, N.O.S.  
(Basic Lead Acetate solution)

**14.3. Transport hazard class(es)**

**Transport class:** 6.1

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** Yes

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

**Tunnel code:** E

[cont...]

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Transport category: 2

**Section 15: Regulatory information**

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

**15.2. Chemical Safety Assessment**

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:** H302: Harmful if swallowed.

H332: Harmful if inhaled.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H360Df: May damage the unborn child. Suspected of damaging fertility.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

R20/22: Harmful by inhalation and if swallowed.

R33: Danger of cumulative effects.

R40: Limited evidence of a carcinogenic effect.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61: May cause harm to the unborn child.

R62: Possible risk of impaired fertility.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.