

1. Identification

Product Code **CL3904-52**

Product Name **LEAD DIOXIDE pure**

Molecular Formula PbO_2 =239.20

CAS Number 1309-60-0

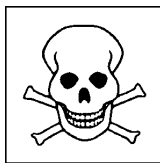
Supplier:  **BEECROFT & PARTNERS**
Northfield Road
Rotherham
South Yorkshire

Phone 01709-377881
Fax 01709-369264

Emergency Telephone 08:30-1700 01709-377881
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Lead compounds	6080-56-4		> 95.0%	T N : R61,R33,R40,R48/22,R50/53, R62	OES

3. Hazards Identification

May cause harm to the unborn child. Harmful by inhalation and if swallowed. Danger of cumulative effects. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION.

Ingestion If conscious wash out mouth thoroughly with water and give water or milk to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Consider what other flammable materials are present and act accordingly. Use water spray to keep fire exposed containers cool.

Unsuitable Media Do not use water jet.

6. Accidental Release Measures

Personal Protection	Evacuate area immediately. Do not allow other people to enter area. Avoid breathing dust-wear respiratory protective equipment.
Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction.
Minor Spillage	Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Well ventilated, cool, dry storage . Keep well separated from food and food containers. Protect from direct sun and store away from sources of ignition. Keep well separated from combustible materials.

8.1 Occupational Exposure Limits

Component	CAS No	Occupational Exposure Standard				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m-3	ppm	mg m-3	ppm	mg m-3	ppm	mg m-3
Lead compounds	6080-56-4	-	0.0500	-	-	-	-	-	-

8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to reduce dust concentrations to a minimum. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hands	Wear gloves.
Eyes	Presents no specific hazard through eye contact although the wearing of safety glasses is advised.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Brown powder.
Odour	No specific odour.
pH	Not available
Boiling point	999.0 °C
Melting point	290.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	Not explosive as a single substance.
Oxidising Properties	A strong oxidising agent.
Vapour Pressure	Not available
Relative Density	Not available
Water Solubility	Insoluble in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid hot surfaces, naked flames, sources of ignition, compression or shock.
Materials to Avoid	Aluminium carbide, sulphides, hydrogen peroxide, hydroxylamine, combustible and organic materials.

10. Stability & Reactivity (continued)

Hazardous Decomposes to emit flammable oxygen gas and toxic fumes of oxides of lead.
Decomposition Products

11. Toxicological Information

Eyes Contact with the solid or dust may be irritating to the eyes but unlikely to cause serious injury.

Skin Unlikely to be an irritant on brief or occasional exposure.

LD50 Skin Not available

Ingest Moderately toxic by ingestion.

LD50 Ingest Rat 4665 mg/kg

Inhalation Inhalation of the dust may cause ultra structural changes to the lungs and effect the central nervous system.

Carcinogenicity No conclusive evaluation of its carcinogenic properties has been made.

Mutagenicity Significant increases in chromosome aberrations have been reported.

Reproductive Effects No information is available.

Other Information Chronic lead poisoning may occur from dust inhalation. Anaemia and other blood effects are the most common. Early symptoms of poisoning include fatigue, headache, sleep disturbances, aching bones and muscles, gastrointestinal disturbances and reduced appetite. Large doses affect the central nervous system causing severe headaches, convulsions, coma, kidney damage and death.

12. Ecological

Lead salts are harmful to the environment. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal Methods Dispose of to a licensed land fill site.

Contaminated Packaging Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name Lead oxide
UN Number 1872
UN Classification 5.1 Oxidising agent
Subsidiary Risk 6.1 Toxic
Flash Point Not available
Packing Group III
Marine pollutant No
ADR Hazard ID 56

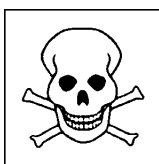


15. Regulatory Information

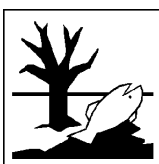
Labelling Toxic, Dangerous for the Environment.
Classification

Label Symbols

T



N



15. Regulatory Information (continued)

Risk & safety Phrases	May cause harm to the unborn child. Harmful by inhalation and if swallowed. Danger of cumulative effects. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility. Avoid exposure - obtain special instruction before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label). This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet.
EEC Number	Not available

16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC. The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. Revision Date: 20/11/03. Data reviewed and PDF file generated: 07/06/04. Copyright 2004 Beecroft & Partners.
----------------------	---