Page: 1 of 6

chem-supply

Infosafe No™ 1CH3Q

Issue Date : July 2018

RE-ISSUED by CHEMSUPP

Product Name : LEAD (II) OXIDE

1. Identification		
GHS Product	LEAD (II) OXIDE	
Identifier		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
Recommended use		
of the chemical and restrictions on use	I refining, varnishes, paints, enamels; assay of precious metal ores, manufacture of red lead, cement (with glyercol), acid-resisting compositions, match-head compositions, other lead compounds, rubber accelerator and laboratory reagent.	
Other Names	Name Product Code	
	LEAD MONOXIDE Low in silver ARLA044LEAD (II) OXIDE LRLL021Lead oxide yellowLitharge	
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.	
	Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. must ascertain the suitability of the product before use or application intended purpose. Pri testing of the product before use or application is recommended. Any reliance or purported upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the this product of any purpose is disclaimed. Except to the extent prohibited at law, any condi- any statute as to the merchantable quality of this product or fitness for any purpose is here This product is not sold by description. Where the provisions of Part V, Division 2 of the Tra Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equ or payment of the cost of replacing the goods or acquiring equivalent goods.	eliminary I reliance e suitability of tion implied by by excluded. ade Practices
2. Hazard Identifi	ication	
GHS classification	Carcinogenicity: Category 2	
of the	Toxic to Reproduction: Category 1A	
substance/mixture	Germ Cell Mutagenicity: Category 2 Single Target Organ Toxicity - Repeated Exposure Category 2	
	Hazardous to the Aquatic Environment - Acute Hazard: Category 1	
.	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1	
Signal Word (s)	DANGER	
Hazard Statement (s)	 H341 Suspected of causing genetic defects. H351 Suspected of causing 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. 	
Pictogram (s)	Health hazard, Environment	
Precautionary statement – 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/fume/gas/mist/vapours/spray. 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. P281 Use personal protective equipment as required. 	
Print Date: 5/07/2018		CS: 1.7.2



Safety Data Sheet

Page: 2 of 6

chem-supply					
Infosafe No™	1CH3Q	Issue Date : July 2	2018	RE-ISSUED b	V CHEMSUPP
Product Name :	LEAD (II) OXIDE				
		Classified as haz	ardous		
Precautionary	P308+P313 IF expose	d or concerned: Get me	dical advice/attenti	on.	
statement –					
Response Precautionary	P405 Store locked up.				
statement - Storage					
Precautionary statement –	P501 Dispose of conte	ents/container to an appr	oved waste dispos	al plant.	
Disposal					
3. Composition/i	nformation on ing	redients			
Chemical	Solid				
Characterization	Nome	040	Duonaution		Diele Dhrees
Ingredients	<u>Name</u> Lead monoxide	<u>CAS</u> 1317-36-8	Proportion 100 %	Hazard Symbol	<u>Risk Phrase</u>
A First sid mass		1317-30-0	100 /8		
4. First-aid meas		n contaminated area to f	roch air immodiato	ly Apply artificial rea	niration if not
IIIIalation		is difficult, give oxygen.			piration in not
Ingestion		ly with water immediatel MITING. Seek immediate		aces of product have	been removed.
Skin		ontaminated clothing an		ea with water for at le	east 15 minutes.
	Ensure contaminated	clothing is washed befor			
Eye contact	depending on the seve Immediately irrigate wi	erity. ith copious quantity of wa	ater for at least 15	minutes. Evelids to b	e held open.In all
-	cases of eye contamin	nation it is a sensible pre-	caution to seek me		
First Aid Facilities	•	ntain and drench facilitie			
Advice to Doctor		based on judgement of			
Most important symptoms/effects,		Lead compounds can accumulate in the body and cause significant long-term health effects. Medical advice should be sought following any exposure.			
acute and delayed	-				
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.			ealand 0800 764	
5. Fire-fighting m	,				
Hazards from		kic fumes and gases, inc	luding lead/lead ox	ides and nitroxides.	
Combustion					
Products Specific Methods	Use extinguishing med	dia most appropriate for t	the surrounding fire	9.	
Specific hazards		. Fire or heat will produc	-		gases. Runoff may
arising from the	pollute waterways.				
chemical Hazchem Code	2Z				
Precautions in		nical splash suit. Fully en	capsulating, gas-ti	aht suits should be w	orn for maximum
	protection. Structural f	irefighter's uniform is NC	T effective for thes	e materials.	
6. Accidental rele	ease measures				
Personal		act. Avoid generation of o	dusts: do not inhale	e dusts. Ensure supp	ly of fresh air in
Precautions Personal Protection	enclosed rooms. Wear protective clothin	ng specified for normal o	perations (see Sec	tion 8)	
Clean-up Methods -	•	erating dust) and remove			for disposal in
Small Spillages	accordance with local				
Environmental Precautions	Prevent contamination	of soil and water.			
7. Handling and s		halation of dust. Avoid c	ontact with eves sl	kin, and clothing Ave	oid prolonged or
Handling	repeated exposure. Mi	inimize dust generation a	and accumulation.	Keep containers clos	ed when not in
	use. Work in fumehoo	d and use only with adeo	quate ventilation. Ir	case of insufficient	ventilation, wear



Safety Data Sheet

info**safe** CS: 1.7.2

Page: 3 of 6

chem-supply			
Infosafe No™	1CH3Q	Issue Date : July 2018	RE-ISSUED by CHEMSUPP
Product Name :	LEAD (II) OXI	DE	
		Classified as hazardous	
	the label. Wear before re-use. V a high level of p before eating, c	suitable protective clothing. Contaminated of Wash hands and face thoroughly after workin personal hygiene is maintained when using the Irinking, smoking or using the toilet.	ng with material. Keep container dry. Ensure his product. That is; always wash hands
Conditions for safe		should be stored in a separate safety storag	
storage, including any		cool, dry, ventilated area away from incomp way from foodstuffs. Protect against physica	al damage, direct sunlight and moisture. Store
incompatabilities	away from com	bustible materials. Areas in which exposure ified by signs or appropriate means, and acc	to lead metal or lead compounds may occur
Storage Regulations		n Standard AS 4452 - 1997 'The storage and	I handling of toxic substances'.
Storage		emperature (15 to 25 °C recommended).	-
Temperatures		· · · · · · · · · · · · · · · · · · ·	
8. Exposure cont	trols/persona	I protection	
Occupational		ce Exposure Standards are guides to be use	
exposure limit		nospheric contamination should be kept to a	
values		sure standards should not be used as fine d of chemicals. They are not a tive toxicity	lividing lines between safe and dangerous
Other Exposure			ead, inorganic dusts and fumes (as Pb) (Safe
Information	a particular sub	stance when calculated over a normal 8 hou	
Appropriate	In industrial situ	ations maintain the concentrations values b	elow the TWA. This may be achieved by
engineering controls	methods.	ation, use of local exhaust ventilation, captu	ining substances at the source, or other
Respiratory Protection	Where ventilation or mists. Respire selected in accord Devices. Filter of planned entry in respiratory prote	atory protection should comply with AS 1716 ordance with AS 1715 - Selection, Use and M capacity and respirator type depends on exp nto unknown concentrations a positive press	Maintenance of Respiratory Protective posure levels. In event of emergency or
Eye Protection	The use of a fac	ce shield, chemical goggles or safety glasse	s with side shield protection as appropriate. ected and used in accordance with AS 1336.
Hand Protection	Hand protectior maintenance.	n should comply with AS 2161, Occupational	protective gloves - Selection, use and
Personal Protective Equipment	when all other r Guidance in sel	tive equipment should not solely be relied u easonably practicable control measures do ecting personal protective equipment can be ar approved standards.	not eliminate or sufficiently minimise risk.
Footwear	Safety boots in	industrial situations is advisory, foot protecti	
Pody Drotostian		rotective footwear - Guide to selection, care	
Body Protection		or protective clothing should be worn, prefera als should comply with AS 3765 Clothing for	
Hygiene Measures		k or smoke in work areas. Wash hands thore	
9. Physical and c	chemical prop	perties	

Form	Solid
Appearance	Yellow to reddish crystals (depending on treatment and purity).
Odour	Odourless.
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Soluble in acids and alkalis.
Specific Gravity	9.56 g/cm3
Flammability	Non combustible material.

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Page: 4 of 6

chem-supply

Infosafe No™ 1CH3Q

Issue Date : July 2018

RE-ISSUED by CHEMSUPP

Product Name : LEAD (II) OXIDE

Molecular Weight 223.2

Classified as hazardous

Molecular Weight	223.2
10. Stability and	reactivity
Chemical Stability	Stable.
Incompatible	Hydrogen peroxide, chemical active metals, aluminum, combustible materials, lithium carbide,
Materials	chlorinated rubber, chlorine, boron, hydrides, ethylene, fluorine, sulfides, acetylides and strong reducing
Hazardous	agents. Thermal decomposition may produce oxides of lead.
Decomposition	memai decomposition may produce oxides of lead.
Products	
Hazardous	Will not occur.
Polymerization	
11. Toxicologica	
Ingestion	Harmful if swallowed. May cause abdominal pain, spasms, nausea, vomiting, headache, joint and
	muscle weakness, 'lead line' on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and urine with shock. The following applies to lead compounds in general: Due
	to the poor absorbability via the gastrointestinal tract, only very high doses lead to acute cases of
	intoxication. Excessive exposure to lead salts can affect blood forming organs, kidneys and nervous and
	digestive systems. The synthesis of haemoglobin is inhibited and results in anaemia. 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,
Inhalation	brain damage, and stupor leading to coma and often death. Harmful by inhalation. May cause irritation of bronchia and lungs. May cause metallic taste, headaches,
IIIIalation	dizziness, join and muscle weakness, chest and abdominal pain and increased blood levels may follow.
Skin	In general, lead compounds are not considered irritating to skin (REACH). No effects were reported in
	skin irritation assays in rabbits citing OECD TG 404 for lead dioxide (CAS No: 1309-60-0), lead oxide,
Eye	red (CAS No: 1314-41-6) and lead monoxide (CAS No: 1317-36-8). In general, lead compounds were not reported to be irritating to eyes or having caused serious eye
Lyc	damage (REACH). No effects were reported in eye irritation assays in rabbits citing OECD TG 405 for
	lead dioxide (CAS No: 1309-60-0), lead oxide, red (CAS No: 1314-41-6) and lead monoxide (CAS No:
Skin Sensitisation	1317-36-8). Several lead compounds, including lead dioxide (CAS No: 1309-60-0), lead oxide, red (CAS No:
Skin Sensitisation	1314-41-6) and lead monoxide (CAS No: 1317-36-8) were reported to be non-sensitisers (REACH). It
	was reported that the compounds gave negative results for skin sensitisation in guinea pigs when tested
•	according to OECD TG 406.
Germ cell	Suspected of causing genetic defects - Cat. 2 (H341)
mutagenicity Carcinogenicity	Lead compounds, inorganic are evaluated in the IARC Monographs (Vol. 87; 2006) as Group 2B:
ouromogeneity	Probably carcinogenic to humans.
Reproductive	May damage the unborn child. Suspected of damaging fertility - Repr. 1A (H360Df)
Toxicity	Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]. Reproductive Toxicity category 1: R61 May cause harm to the unborn child.
	Category 1: Established human carcinogens are those substances known to be carcinogenic to humans.
	There is sufficient evidence to establish a causal association between human exposure to these
	substances and the development of cancer.
	Reproductive Toxicity category 3: R62 Possible risk of impaired fertility. Category 3: Substances suspected of having carcinogenic potential are those substances which have
	possible carcinogenic effects on humans but in respect of which the available information is not
	adequate for making a satisfactory assessment. There is some evidence from appropriate animal and
	epidemiological studies, but this is insufficient to place the substance in Category 2.
	The material decreases human motility counts, however increases the rate of stillbirths, preterm deliveries and neurological abnormalities.
STOT-repeated	H373 May cause damage to organs through prolonged or repeated exposure.
exposure	
Chronic Effects	An inorganic compound such as Lead, is a cumulative harmful poison when exposed in small amounts
	can raise the body's content to toxic levels. Prolonged or repeated exposure to lead toxicity effects the nerous system (memory loss, tiredness, headaches, fatigue, irritability, decreased libido, dizziness,
	הפוטעס פאסופות וחפוווטרא ווסס, וופעוופסס, ופעעמטופס, ומנוצעפ, ווונגטוווגי, עפטופססט ווטועט, עוצצווופסס,
Print Date: 5/07/2018	09:172

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chem-	supply

Page: 5 of 6

1CH3Q Issue Date : July 2018 Infosafe No™ Product Name : LEAD (II) OXIDE Classified as hazardous

RE-ISSUED by CHEMSUPP

	performance, and mental performance, disturbances to vision, changes in hearing, muscle and joint weakness of the arms and legs, footdrop and wristdrop), heart/blood vessels (reduced haemoglobin synthesis and production, reduced life span and function of red blood cells, anaemia, increased blood pressure), digestive system (loss of appetite, anorexia, with severe abdominal pain, diarrhea, inflammation of the stomach walls (gastritis) and colic, cramps, nausea, vomiting, constipation, weight loss and decreased urination, deposition of blue lead-line on the gums), kidneys/urinary system (reversible/irreversible kidney damage) and endocrine system. Increased levels of lead result in increased brain damage, coma and death in extreme cases.
Mutagenicity	Possible mutagen.

Ecotoxicity	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Environmental	Do not allow product to enter drains, waterways or sewers.
Protection	

13. Disposal considerations

Disposal	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local,
Considerations	state and federal government regulations.

14. Transport information

Transport	Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with
Information	any of the following:
	Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.
U.N. Number	2291
UN proper shipping	LEAD COMPOUND, SOLUBLE, N.O.S.
name	
Transport hazard class(es)	6.1
Hazchem Code	2Z
Packaging Method	3.8.6.1
Packing Group	
EPG Number	6B5
IERG Number	34

15. Regulatory information

Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	S6
National and or International Regulatory Information Packaging & Labelling	Safe Work Australia: Model Work Health and Safety Regulations 2011, Chapter 7 Hazardous Chemicals, Part 7.2 Lead.

16. Other Information

Literature	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
References	Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
	National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road
	and Rail 7th. Ed.', 2007.
	Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
	Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',



Issue Date : July 2018

Page: 6 of 6

chem-supply Infosafe No™

RE-ISSUED by CHEMSUPP

Product Name : LEAD (II) OXIDE

1CH3Q

Classified as hazardous

	Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances
	(2011)'.
	Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
Contact	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
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Structural Formula	
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