

Safety Data Sheet

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Infosafe No™ 1CHL0

Issue Date :June 2021

RE-ISSUED by CHEMSUPP

Product Name **LEAD SULFATE**

Classified as hazardous

1. Identification	
GHS Product Identifier	LEAD SULFATE
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone/Fax Number	Tel: (08) 8440-2000
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
E-mail Address	www.chemsupply.com.au
Recommended use of the chemical and restrictions on use	Paint pigments, storage batteries, rapid-drying oil varnishes, clay stabiliser, lithography and weighting fabrics.
Other Names	Name Product Code
	LEAD SULFATE LR LL047
	ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.
2. Hazard Identifi	cation
GHS classification of the substance/mixture	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 Acute Toxicity - Inhalation: Category 4 Specific target organ toxicity - Repeated Exposure Category 2 Toxic to Reproduction: Category 1A Carcinogenicity - Category 2
	Germ cell mutagenicity - Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H332 Harmful if inhaled. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H360Df 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, Exclamation mark, 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. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment.



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Product Name	LEAD SULFATE			
		Classifie	d as hazardo	ous
	P281 Use personal	protective	equipment as	required.
Precautionary statement – Response	P304+P340 IF INHA position comforta P312 Call a POISC P308+P313 IF expc P391 Collect spil	LED: Remove ble for brea N CENTER or sed or conce lage.	victim to fr athing. doctor/physi erned: Get me	resh air and keep at rest in a cian if you feel unwell. dical advice/attention.
Precautionary	P405 Store locked	l up.		
statement – Storage Precautionary statement – Disposal	P501 Dispose of c	contents/con	tainer to an	approved waste disposal plant.
3. Composition/in	formation on ingredi	ents		
Ingredients	Name	CAS		Proportion
	Lead sulfate	7446	5-14-2	100 %
4. First-aid measu	ires			
Inhalation	Remove victim fro clothing and loos comfortable posit Ensure airways ar mask if breathing respiration. If	m exposure en remainin ion and keep e clear and is difficu rapid recove	- avoid becom g clothing. p warm. Keep have qualifi lt. If breat ery does not	hing a casualty. Remove contaminated Allow patient to assume most at rest until fully recovered. ed person give oxygen through a face hing has stopped, apply artificial occur, obtain medical attention.
Ingestion	Rinse mouth thoro product have been effects persist.	ughly with removed. D	water immedia D NOT INDUCE	tely, repeat until all traces of VOMITING. Seek medical advice if
Skin	If skin or hair o and hair with run occurs seek medic	contact occu: ning water. al advice.	rs, remove co Wash clothi	ntaminated clothing and flush skin ng before reuse. If irritation
Eye contact	Immediately irrig Eyelids to be hel attention	ate with co d open. If	pious quantit rapid recove	y of water for at least 15 minutes. Try does not occur, obtain medical
First Aid Facilities	Maintain eyewash	fountain and	d safety show	er in work area.
Advice to Doctor	Treat symptomatic the patient. Treat as for expo include haemoglok of renal functior	ally based of sure to incoming determination of the second	on judgement rganic lead c ation, tests	of doctor and individual reactions of compounds. Physical examination should for blood lead levels and evaluation
Other Information	For advice, conta New Zealand 0800	ct a Poison 764 766) or	s Information a doctor.	Centre (Phone eg Australia 13 1126;
5. Fire-fighting m	easures			
Hazards from Combustion Products	May liberate toxi	c fumes in :	fire such as	oxides of lead and sulphur.
Specific Methods	Small fire: Use of If safe to do so, Large fire: Use w Cool containers w out. Avoid gettir	ry chemical move undam ater spray, ith flooding g water ins	, CO2 or wate aged containe fog or foam g quantities ide container	r spray. rs from fire area. - Do not use water jets. of water until well after fire is s.
Specific hazards arising from the chemical	Material does not corrosive gases.	burn. Fire Runoff may p	or heat will pollute water	produce irritating, poisonous and/or ways.
Hazchem Code	2X			
Precautions in connection with Fire	Wear SCBA and che should be worn fo effective for the	mical splas or maximum p se material	n suit. Fully rotection. St s.	-encapsulating, gas-tight suits ructural firefighter's uniform is NOT

6. Accidental release measures



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Product Name	LEAD SULFATE				
		Classifie	d as hazard	lous	
Spills & Disposal	Do not touch or or spilled mate if safe to do s Cover with plas other non-combu INSIDE CONTAINE	c walk through erial unless w so - Prevent e stic sheet to astible materi CRS. SEEK EXPE	spilled mat earing appro ntry into wa prevent spre al and trans RT ADVICE ON	erial. Do not touch damaged containe priate protective clothing. Stop lea terways, drains or confined areas. ading. Absorb with earth, sand or fer to container. DO NOT GET WATER HANDLING AND DISPOSAL.	ers ak
Personal Precautions	Avoid substance Ensure supply o	e contact. Avo of fresh air i	id generatio n enclosed r	n of dusts: do not inhale dusts. ooms.	
Personal Protection	Wear protective	e clothing spe	cified for n	ormal operations (see Section 8)	
Clean-up Methods - Small Spillages	Sweep up (avoid to a clean, sui with local regu	d generating d table, clearl ulations.	ust) and usi y labelled c	ng clean non-sparking tools transfer ontainer for disposal in accordance	r
Clean-up Methods -	Seek expert adv	vice on handli	ng and dispo	sal.	
Large Spillages					
Environmental Precautions	Use appropriate	e containment	to avoid env	ironmental contamination.	

7. Handling and storage

Precautions for Safe Handling	Keep locked up. Keep container dry. Do not breathe dust. Avoid skin and eye contact and breathing in dust. Avoid prolonged or repeated exposure. Never add water to this product. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Under no circumstances eat, drink or smoke while handling this material. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use. If you feel unwell, seek medical attention and show the label when possible.
Conditions for safe storage, including any incompatibilities	Keep containers securely sealed and protected against physical damage. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight. Store at room temperature (15 - 25 °C). Corrosive materials should be stored in a separate safety storage cabinet or room. Store away from foodstuffs. Keep containers closed at all times - check regularly for leaks. Isolate from incompatible substances.
Storage Regulations	Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	S	TEL	Г	WA	
		mg/m3	ppm	mg/m3	ppm	Footnote
	Lead sulfate			0.15		Lead, inorganic dusts & fumes (as Pb)
Other Exposure Information	These Workplace Exposure St occupational health hazards as low a level as is workab be used as fine dividing li chemicals. They are not a m A time weighted average (TW and fumes (as Pb) (Safe Wor the TWA is the average airb calculated over a normal 8	andards a . All atr le. These nes between heasure of (A) has be ck Austral borne cond hour worl	are guide mospheric e workpla een safe relativ een estab Lia) of O centratic king day	es to be us contamina acce exposur and danger re toxicity clished for 0.15 mg/m ³ on of a par for a 5 da	sed in t ation sh ce stand cous con 7. c Lead, . The ex cticular ay worki	he control of ould be kept to ards should not centrations of inorganic dust posure value at substance when ng week.
Appropriate engineering controls	Maintain the concentrations process modification, use of at the source, or other met	values } of local @ hods.	elow the exhaust v	e TWA. This rentilation	s may be n, captu	achieved by ring substances
Respiratory Protection	Where ventilation is not ac Avoid breathing dust, vapor with AS 1716 - Respiratory with AS 1715 - Selection, C Devices. Filter capacity an	lequate, : ars or mis Protectiv Use and Ma ad respira	cespirato sts. Resp ve Device aintenanc ator type	ory protect piratory pr es and be s se of Respi e depends of	tion may rotectio selected iratory on expos	be required. n should comply in accordance Protective ure levels. In



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Product Name	LEAD SULFATE						
		Clas	ssified	d as ha:	zardous		
	event of emerg pressure, full required, inst selection, fit	ency or -facepie itute a testing	planned ce SCBA complet , trair	d entry A should te respi hing, ma	into unknown o be used. If m ratory protect intenance and	concentrations a respiratory prote tion program incl inspection.	positive ection is uding
Eye Protection	The use of a f protection as be selected an	ace shie appropri d used i	ld, che ate. M n accor	emical g Must com cdance w	oggles or safe oly with Austr ith AS 1336.	ety glasses with calian Standards	side shield AS 1337 and
Hand Protection	Wear gloves of protective glo appropriate gl can include me appropriate ri hands, do not waste.	impervi oves - Se ove type thods of sk asses touch th	ous mat lection will w handli sments. e glove	terial control of the second s	onforming to A nd maintenance ording to indi engineering o skin contact surface. Disp	AS/NZS 2161: Occu e. Final choice ividual circumsta controls as deter when removing gl pose of gloves as	apational of ances. This mined by oves from a hazardous
Personal Protective Equipment	Personal prote and should onl do not elimina protective equ or other appro	ctive eq y be use te or su ipment c ved star	uipment d when fficier an be c dards.	t should all oth htly min obtained	not solely be er reasonably imise risk. Gu from Australi	e relied upon to practicable cont uidance in select ian, Australian/N	control risk crol measures cing personal New Zealand
Footwear	Safety boots i comply with AS care and use.	n indust 2210, C	rial si ccupati	tuation	s is advisory, otective footw	, foot protection wear - Guide to s	should selection,
Body Protection	Clean impervic chemicals shou Chemicals.	us cloth ld compl	ing sho y with	AS 3765	worn. Clothing Clothing for	g for protection Protection Agair	against Nst Hazardous
Hygiene Measures	Always wash ha contaminated c re-using.	nds befo	ere smol and oth	king, ea her prot	ting or using ective equipme	the toilet. Wash ent before storin	ng or

9. Physical and chemical properties

Form	Solid
Appearance	White to very faintly beige fine crystalline powder.
Odour	Odourless.
Melting Point	1170 °C
Solubility in Water	Practically insoluble. Soluble in about 2225 parts water. Slightly soluble in hot water.
Solubility in Organic Solvents	Insoluble in alcohol.
Specific Gravity	6.12-6.39
Volatile Component	0%
Flammability	Not combustible.
Explosion Properties	Not considered to be an explosion hazard. Sealed containers may rupture when heated.
Molecular Weight	303.25
Solubility in other solvents (kg/m3)	More soluble in dilute hydrochloric acid or nitric acid, less in dilute sulphuric acid, soluble in sodium hydroxide, ammonium acetate or tartrate solution, soluble in concentrated hydriodic acid.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Potassium, strong bases and alkali metals.
Hazardous Decomposition Products	Very toxic fumes of lead and sulfur oxides.

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Product Name	LEAD SULFATE	
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Possibility of hazardous reactions	Reacts violently or explosively with potassium.	
Hazardous Polymerization	Will not occur.	
11. Toxicological I	Information	
Ingestion	Due to the poor absorbability via the gastrointestinal tra	act, only very high
	doses may lead to concern. Symptoms of ingestion of a very large dose over a short ti include headache, fatigue, nausea, abdominal cramps, and j poisoning can cause or lead to vomiting and constipation of joint and muscle pain, weakness of the extensor muscles (f and wrist), depression, 'lead line' on the gums, metallic definite loss of appetite, insomnia, dizziness, possible of lead levels in blood and urine with shock, coma and death May affect behaviour/brain, metabolism, liver, cardiovascu system, and blood. Exposure may cause anaemia and other bl High body levels produce increased cerebrospinal pressure	me period may joint pain. Acute or bloody diarrhoea, Frequently the hand taste in the mouth, convulsions, high in extreme cases. alar system, urinary lood abnormalities. brain damage and
	stupor leading to coma and often death. If left untreated,	neuromuscular
Inhalation	Harmful if inhaled. Inhalation produces damaging effects of membranes and upper respiratory tract. Lead may be absorbed respiratory system. May cause moderate to severe gastroint irritation with abdominal pain and spasms, nausea, vomiting	on the mucous ed through the cestinal tract ng, headache and
Skin	diarrhoea. Inorganic lead and lead compounds may cause mild local irr absorbed through the skin, but it is not clear whether thi would increase the lead body burden and toxicity from this be unlikely. Open cuts, abraded or irritated skin should r this material. Contact over short periods may cause local and pain.	ritation and may be s type of exposure s route is thought to not be exposed to irritation, redness
Eye	Contact can cause blurred vision, redness, pain, severe in can occur through eye tissues but the more common hazards or abrasion. Concentrated solutions or high levels of dust or fumes may irritation or abrasion, with redness, tearing, stinging, k temporary impairment of vision and/or other transient eye	ritation. Absorption are local irritation cause eye plurred vision, damage/ulceration.
Respiratory	Not classified based on available information.	
sensitisation		
Skin Sensitisation	Not classified based on available information.	
Germ cell mutagenicity	H341 Suspected of causing genetic defects	
Carcinogenicity	Lead compounds, inorganic is evaluated in the IARC Monogra preparation) as Group 2A: Probably carcinogenic to humans. Carcinogenicity - Category 2 H351 Suspected of causing cancer	phs (Vol. 87; in
Reproductive Toxicity	Toxic to Reproduction: Category 1A H360f May damage fertility or the unborn child. Suspected fertility.	of damaging
STOT-single	Not classified based on available information.	
exposure STOT-repeated exposure	Specific target organ toxicity (repeated exposure) - Cated H373 May cause damage to organs through prolonged or repea	Jory 2 ated exposure
Health Hazard	May be harmful if inhaled. Inhalation of dusts may cause is nose, throat and respiratory system (local irritation of t lungs). Symptoms such as metallic taste, chest and abdomin increased lead blood levels may follow. Effects such as he joint pain, nausea, vomiting, abdominal cramps and constig diarrhea may occur upon inhalation of large amounts. Lead through the respiratory system. See symptoms of ingestion.	rritation of the the bronchia, and al pain, and adache, fatigue, bation or bloody can be absorbed . Lead accumulates in



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Chronic Effects	the body and inorganic lead compounds are well known to cause significant health effects following chronic exposure. If a significant amount of lead has accumulated in the body, symptoms of long-term toxicity may develop after what may seem to be a short-term acute exposure. See Chronic Effects. Danger of cumulative effects. Adult: effects from chronic exposure include gastrointestinal signs such as nausea, vomiting, abdominal pain, metallic taste, anorexia and general feeling of malaise or fatigue. With longer exposures the patient may also have joint pain, progressive fatigue and anaemia. There is a strong association between elevated blood lead concentrations and anaemia which is characterised as hypochromic monocytic with a decrease in mean corpuscular haemoglobin and stippling of erythrocytes and reticulocytes. There may also be altered renal and hepatic function. Motor weakness may progress to paralysis of the extensor muscles of the wrist (wrist drop) and less often the ankles (foot drop). Adults may have a bluish gingival 'lead-line'. Encephalopathy rarely occurs in adults except from exposure to organic lead. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Child: clinical effects from chronic exposures include severe gastrointestinal disturbances with constipation, abdominal pain and tenderness. Other effects include anaemia, weakness, pallor, anorexia, insomnia, renal hypertension and mental fatigue. There may be a bluish 'lead line' on the gums although this is not often present. Lead may also be drawn to areas of the skeleton that grow most rapidly and in some cases hypermineralisation of the radius, tibia and femur can be seen on X-ray with the development of metaphyseal lines. Neuromuscular dysfunction may result in signs of motor weakness and paralysis of the extensor muscles of the wrist and ankles. Encephalopathy can occur in patients with previously mild symptoms. Effects include vomiting, confusion, ataxia, apathy, bizarre
Mutagonicity	behaviour and coma and convulsions due to cerebral oedema. Not classified based on available information
Human Effects	Children appear to be more susceptible than adults to the toxic effects of
	lead because of incomplete development of the blood brain barrier, greater intestinal absorption of lead and a tendency to put objects or their hands into their mouths thereby increasing ingestion of contaminated substances. In addition, they have a smaller proportion of dense bone tissue than adults and this prevents the transfer of the absorbed lead into bone, it remains in the soft tissues where it produces toxic effects. Lead poisoning by ingestion is more common in young children with a history of pica.
12. Ecological info	rmation

Ecotoxicity	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence and degradability	Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are more toxic.
Environmental Fate	Lead released into the atmosphere partitions to surface water, soil and sediment. Lead is transported in the atmosphere and in surface water. If released into water, lead sulfate will mostly precipitate out due to its low solublity. Lead is strongly adsorbed onto sediment and soil particles. If released or deposited onto soil lead will be retained in the upper 2 - 5 cm of soil especially in soils with at least 5% organic matter or pH 5 or above. When released into the soil, this material is not expected to leach into groundwater, although there is some evidence to suggest that lead is taken up by some plants. Generally the uptake of lead by plants is not significant. Lead is expected to slowly undergo speciation to the more insoluble sulphate, sulphide, oxide and phosphate salts.
Bioaccumulative	This material may bioaccumulate to some extent.
Potential	

13. Disposal considerations

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



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14. Transport information

Transport Information	Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with 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	3288
UN proper shipping name	TOXIC SOLID, INORGANIC, N.O.S (Lead sulfate, solid)
Transport hazard class(es)	6.1
Hazchem Code	2X
Packing Group	III
IERG Number	34
Environmental Hazards	Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
15. Regulatory information	

10. Regulatory mormation		
Regulatory	All the constituents of this product are listed on the Australian Inventory of	
Information	Chemical Substances (AICS), or exempted. Not listed under WHS Regulation	
	2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and	

InformationChemical Substances (AICS), or exempted. Not listed under WHS Regulation
2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and
restricted hazardous chemicals.Poisons ScheduleS6

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
Kenerences	National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.
	Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
	Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
	Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe
	Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural	PbS04
Formula	End of MODO
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