


SAFETY DATA SHEET

LeachAid XL™

SECTION 01 - IDENTIFICATION

Product identifier	LeachAid XL
Recommended use of chemical	Mineral Processing Aid
Supplier name	ConSep Pty Ltd
Supplier address	59 Newton Road Wetherill Park NSW 2164, Australia
Prepared by	Ixom Operations Pty Limited trading as LogiChem
Phone	+61 2-9756-5299
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SECTION 02 - HAZARD(S) IDENTIFICATION

Classification	Toxic To Reproduction - Category 1A Specific Target Organ Toxicity (Repeated Exposure) - Category 2 Serious Eye Damage/Irritation - Category 2A Sensitisation (Skin) - Category 1
Signal word	Danger
Pictogram	
Hazard statements	H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H360FD - May damage fertility. May damage the unborn child. H373 - May cause damage to organs (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).
Precautionary statements	Prevention P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P221 - Take any precaution to avoid mixing with combustibles P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash exposed skin thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. Response P301 / P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 / P352 - IF ON SKIN: Wash with plenty of soap and water. P305 / P351 / P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 / P313 - If skin irritation or rash occurs: Get medical advice/attention. P337 / P313 - If eye irritation persists: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P321 - Specific treatment (see First Aid Measures on Safety Data Sheet). Storage P403 / P233 - Store in a well-ventilated place. Keep container tightly closed. Disposal



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P501 - Dispose of contents/container in accordance with local / regional / national / international regulations.

SECTION 03 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Substance name:</u>	<u>Proportion % w/w</u>
Proprietary Blend of Non-hazardous Organic & Inorganic Compounds	>93.0%
Water	<3.0%
Lead Nitrate CAS No: 10099-74-8	<5.0%

SECTION 04 – FIRST AID MEASURES

Description of necessary first aid measures	<p>Eye – If eye contact occurs, rinse thoroughly under running water for at least 15 minutes with eyelids held open. Seek medical attention.</p> <p>Ingestion - If swallowed, immediately rinse out mouth and then drink plenty of water. DO NOT induce vomiting. Seek medical attention as a precaution.</p> <p>Inhalation – If dust or powder is inhaled, remove affected person to fresh air. Rinse nose, mouth and throat with water. If breathing remains difficult seek medical attention.</p> <p>Skin - Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 15 minutes. Wash clothing and shoes before reuse. Get medical attention if irritation develops.</p>
Medical attention / special treatment	For methemoglobinemia, administer oxygen alone or with Methylene blue, depending on the methemoglobin concentration in the blood.
Symptoms caused by exposure	Not available.

SECTION 05 – FIRE FIGHTING MEASURES

Suitable extinguishing media	Use water spray, dry chemical, carbon dioxide, or chemical foam.
Specific hazards arising from the chemical	Over 350°C the material will burn and support combustion. Hazardous decomposition products include oxides of nitrogen, oxides of sulfur, carbon monoxide and lead fumes.
Special protective equipment & precautions for fire fighters	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Personnel involved in the clean up should wear full protective clothing as listed in Section 08. Avoid accidents, clean up immediately. Slippery when spilt. Ground all equipment containing material. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Reduce airborne dust and prevent scattering by moistening with water. Avoid breathing dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.
Environmental precautions	Do NOT let product reach drains or waterways.
Methods and materials for containment and cleaning up.	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. Clean up spills in a manner that does not disperse dust into the air. Reduce airborne dust and prevent scattering by moistening with water. Use non - sparking tools and equipment. Use grounded / bonded equipment and containers when transferring. Pick up spill for recover of disposal and place in a closed container.

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SECTION 07 – HANDLING AND STORAGE

Precautions for safe handling	Use only in a well-ventilated area. Minimize dust generation and accumulation. Use personal protective equipment (refer Section 08) to avoid breathing dust or mist and to avoid contact with eyes and skin. Close containers immediately after using.
Conditions for Safe Storage (Including Any Incompatibles)	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

SECTION 08 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring	The following are the exposure limits for pure lead compounds: Lead (inorganic dust) TWA (mg/m ³) = 0.15
Appropriate engineering controls	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. If needed, use process enclosure, local exhaust ventilation or other engineering controls to control airborne levels.
Personal protective equipment (PPE)	Clothing – Wear appropriate protective clothing to prevent skin exposure. Eyes – Wear protective goggles to keep dust from eyes. Footwear – Wear protective safety footwear. Gloves – Wear appropriate protective gloves to prevent skin exposure. Other – Wear an air purifying dust and mist mask.

SECTION 09 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Slightly yellow granules (prill)
Odour	Faint caramel smell
pH (in 5% solution)	Approx 8
Specific gravity (water = 1)	~1.0
Boiling point and boiling range	Not applicable
Flash point	Well above 100°C
Vapour pressure (hPa @ 20°C)	Not determined
Relative Vapour Density (Air)=1	Not applicable
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%)	Not applicable
Solubility(ies) (water)	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to avoid	Incompatible materials, exposure to moist air or water, generating dust.
Incompatible materials	Incompatible with strong oxidizers and with the following metals: brass, copper, nickel, cadmium.
Hazardous decomposition products	Nitrogen oxides, carbon monoxide, oxides of sulfur and lead fumes are products of combustion.

SECTION 11– TOXICOLOGICAL INFORMATION

Information on routes of exposure	Eyes – May cause eye irritation. Ingestion – May cause digestive tract disturbances. Toxic. The symptoms of lead poisoning include abdominal pain and spasms, nausea, vomiting, headache. Poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and urine with shock, coma and death in
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	<p>extreme cases.</p> <p>Inhalation – Dust may cause irritation to the respiratory system. Prolonged exposure to dust may cause anemia and methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis (bluish skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown coloured blood.</p> <p>Skin - May cause skin irritation. Prolonged exposure may cause skin irritation, dermatitis and skin sensitization.</p>
Symptoms related to exposure	Not available.
Numerical measures of toxicity	Not available.
Immediate, delayed and chronic health effects from exposure	Blood changes, kidney damage and central nervous system damage. Adverse effects of lead on human reproduction, Embryonic and foetal development and post-natal (eg. mental) development have been reported.
Exposure levels	Not available.
Interactive effects	Not available.
Data limitations	Not available.

SECTION 12- ECOLOGICAL INFORMATION

Ecotoxicity	<p>Oral (rat) LD50: >2000mg/kg</p> <p>Inhalation (rat) LD50: >5.1mg/1/4hr</p>
Persistence and degradability	Not available.
Bioaccumulative potential	No bioaccumulation is expected in soil or water.
Mobility in soil	Not available.
Other adverse effects	The principal ingredients of LeachAid are all biodegradable and no bioaccumulation is expected in soil or water. Lead may bio-accumulate to some extent.

SECTION 13 - DISPOSAL CONSIDERATIONS

Safe handling and disposal methods	Avoid generating dust. Sweep up spill and vacuum up remaining material. Recovered material may generally be re-used after separation of any foreign materials (e.g. grit). If needed, redundant material can be disposed of through incineration by an approved facility. Small amounts can be disposed together with small amounts of industrial waste to approved landfill sites. The minor quantities could be disposed of with other laboratory wastes, alternatively into the Cyanidation circuit, to ultimately report to tailings at negligible levels.
Disposal of any contaminated packaging	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Environmental regulations	Not available.

SECTION 14 - TRANSPORT INFORMATION

UN number	1469
Transport hazard class(es)	5.1
Subsidiary risk	6.1
Packaging group	II
Environmental hazards	Not available.
Special precautions during transport	Because of the low levels of lead there are no specific restrictions or particular requirements for the transport of LeachAid.
Hazchem code	2Y

SECTION 15 - REGULATORY INFORMATION



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AICS name	Not available.
Poisons Schedule number	Not available.

SECTION 16 - OTHER INFORMATION

SDS creations date	01 December 2000
Most recent revision date	01 February 2018
Revision number	017 THIS ISSUE NUMBER REPLACES ALL ISSUES
Reason for revision	Annual Update
Contact person	ConSep Pty Ltd +61 2-9756-5299

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

END OF SDS