

Infosafe No™ 1CH61	Issue Date : August 2021	RE-ISSUED by CHEMSUPP
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Product Name **SILVER CHLORIDE**

Classified as hazardous

1. Identification

GHS Product Identifier	SILVER CHLORIDE	
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	Photography film and photographic paper manufacturing; photometry and optics; photochromic lenses; silver plating; production of pure silver; reference electrodes; infrared absorption cells; pottery glaze additive; medical preparations (eliminates or flushes out mercury from the body); antiseptic and laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>
	SILVER CHLORIDE LR	SL119
	Silver(I) chloride	
	Silver monochloride	

Other Information

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 Identification

GHS classification of the substance/mixture	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Corrosive to Metals: Category 1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H290 May be corrosive to metals. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Pictogram (s)	Corrosion, Environment



Precautionary statement – Prevention	P234 Keep only in original container. P273 Avoid release to the environment.
Precautionary statement – Response	P390 Absorb spillage to prevent material damage. P391 Collect spillage.

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Precautionary statement – Storage P406 Store in corrosive resistant/ container with a resistant inner liner.

Precautionary statement – Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Silver chloride	7783-90-6	100 %

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If rapid recovery does not occur, obtain medical attention

Eye contact If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If rapid recovery does not occur, obtain medical attention

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products Hydrogen chloride gas, oxides of silver and chlorine, possibly also free, or ionic chlorine, silver fumes.

Specific Methods Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.
Small fire: Use dry chemical, CO2, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

Personal Precautions Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing .

Conditions for safe storage, including any incompatibilities Keep in a tightly closed light-resistant container, stored in a cool, dry, well-ventilated area, away from incompatible substances. Store in dark area. Protect from exposure to light. Keep away from heat and all sources of

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ignition. Do not store near combustible materials. Protect against physical damage, direct sunlight and moisture. Handle and store under inert gas, e.g. argon. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Storage Temperatures

24 °C Maximum.

8. Exposure controls/personal protection

Other Exposure Information

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Silver, metal (Safe Work Australia) of 0.1 mg/m³ and for Silver, soluble compounds (as Ag) (Safe Work Australia) of 0.01 mg/m³. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Appropriate engineering controls

Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Respiratory Protection

Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.

Eye Protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

Personal Protective Equipment

Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

Body Protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White to off-white or greyish-white granules, crystals or powder.
Odour	Odourless.
Melting Point	455 °C
Boiling Point	1554 °C
Solubility in Water	Insoluble (0.00188 g/l at 25 °C).
Solubility in Organic Solvents	Soluble in thiosulfate and ammonium carbonate solutions.

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Specific Gravity	5.56 g/cm ³
Vapour Pressure	1.33 hPa (1 mm Hg) @ 912 °C.
Flammability	Non combustible material.
Molecular Weight	143.34
Other Information	Soluble in ammonium hydroxide, concentrated sulfuric acid, sodium thiosulfate, alkali cyanides and potassium bromide solutions. Appreciably soluble in concentrated aqueous solutions of ammonium chloride, mercuric nitrate, and silver nitrate. Can be melted, cast and fabricated like a metal.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Light sensitive. Darkens on exposure to light.
Conditions to Avoid	Heat, moisture, light, incompatibles and dust generation.
Incompatible Materials	Strong oxidizing agents, acetylene, aluminium, ammonia, ammonium hydroxide, alkali metals, bromine trifluoride, hydrazine, hydrogen peroxide, peroxi compounds, sodium peroxide + charcoal and sulfoxides.
Hazardous Decomposition Products	Hydrogen chloride gas, oxides of silver and chlorine, silver and chlorine compounds, possibly also free, or ionic chlorine and silver fumes.
Possibility of hazardous reactions	Reacts violently with aluminium, ammonia, bromine trifluoride, bromoazide, chlorine, ethyleneimine, oxalic acid, potassium, sodium, tartaric acid and trifluoride. Reacts with ammoniacal solution to give acetylides. The dried acetylides are extremely sensitive and subject to violent reaction. Reaction with acetylene may cause formation of silver acetylide that is sensitive to shock. Reaction with strong hydrogen peroxide solutions will cause violent decomposition to oxygen gas.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): >5110 mg/kg
Ingestion	Not expected to be a health hazard via ingestion. Low toxicity due to insolubility. May cause irritation of the digestive tract. Ingestion of silver compounds may cause abdominal pain, rigidity, convulsions and shock. The following applies to practically insoluble silver compounds: long-term inhalation or ingestion can result in a persistent discoloration (grey to blue) of the skin and mucous membranes (argyria).
Inhalation	Nuisance dust, may cause coughing or sneezing due to mild irritation. Causes respiratory tract irritation. Repeated exposure by inhalation brings about effects classically described as generalized argyria.
Skin	Skin contact may cause redness, itchiness and irritation.
Eye	This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not listed in the IARC Monographs. Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.

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Chronic Effects Chronic inhalation, application or ingestion of silver salts may cause argyria characterized by a permanent blue-gray discolouration of the eyes, skin, mucous membranes, and internal organs, resulting from the accumulation of silver in the body, or the deposit of insoluble albuminate of silver.

12. Ecological information

Ecological Information Due to the poor solubility of the product, no harmful effects on plants and/or aquatic organisms are to be expected when handled and used with due care and attention.

Persistence and degradability Methods for the determination of biodegradability are not applicable to inorganic substances.

Environmental Fate Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

13. Disposal considerations

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

14. Transport information

Transport Information Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

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

Poisons Schedule Not Scheduled

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
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 Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula AgCl

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