

Infosafe No™ 3CHCT      Issue Date : October 2021      RE-ISSUED by ACR

Product Name **SILVER STANDARD Solution**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** SILVER STANDARD Solution

**Product Code** 0747, 0748, 1779, 5236, 5237, 6125

**Company Name** AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street Gillman  
S.A. 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440 2000  
Fax: (08) 8440 2001

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**Recommended use of the chemical and restrictions on use** Laboratory reagent.

**Other Information** EMERGENCY CONTACT NUMBER: +61 08 8440 2000  
Business hours: 8:30am to 5:00pm, Monday to Friday.

Australian Chemical Reagents (ACR) 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 Australian Chemical Reagents (ACR) 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 Australian Chemical Reagents (ACR) 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** Eye Damage/Irritation: Category 2A  
Skin Corrosion/Irritation: Category 2  
Corrosive to metals: Category 1

**Signal Word (s)** WARNING

**Hazard Statement (s)** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H290 May be corrosive to metals.

**Pictogram (s)** Corrosion



**Precautionary statement – Prevention** P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P234 Keep only in original container.

**Precautionary statement – Response** P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P390 Absorb spillage to prevent material damage.

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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>
	Nitric acid	7697-37-2	2-5 %
	Silver nitrate	7761-88-8	0.01-<2 %
	Water to make a total of 7732-18-5		
	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. Immediately obtain 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 immediate medical advice.

**Skin** Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek 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

**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.

**Specific hazards arising from the chemical** Product does not burn. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes.

**Hazchem Code** 2X

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

### 6. Accidental release measures

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

**Clean-up Methods - Small Spillages** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

### 7. Handling and storage

**Precautions for Safe Handling** Avoid breathing vapour or mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid ingestion. If you feel unwell, seek medical attention and show the label when possible.

**Conditions for safe storage, including any incompatibilities** Keep in a tightly closed container, stored in a cool, dry, environment. Store away from foods and other chemicals.

**Storage Regulations** Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.

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## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
	Nitric acid	10	4	5.2	2	
	Silver nitrate			0.01		Silver, soluble compounds (as Ag)
<b>Other Exposure Information</b>	<p>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.</p> <p>A time weighted average (TWA) has been established for Nitric acid 4ppm (Safe Work Australia) of 10 mg/m<sup>3</sup>. The corresponding STEL (Short Term Exposure Limit) is 2 ppm or 5.2 mg/m<sup>3</sup>. The STEL is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. 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.</p>					
<b>Appropriate engineering controls</b>	<p>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.</p>					
<b>Respiratory Protection</b>	<p>Usually is not required.</p> <p>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.</p>					
<b>Eye Protection</b>	<p>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.</p>					
<b>Hand Protection</b>	<p>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.</p>					
<b>Personal Protective Equipment</b>	<p>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.</p>					
<b>Footwear</b>	<p>Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.</p>					
<b>Body Protection</b>	<p>Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.</p>					
<b>Hygiene Measures</b>	<p>Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.</p>					

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear liquid.
<b>Solubility in Water</b>	Soluble.

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**Flammability** Non flammable.

## 10. Stability and reactivity

**Chemical Stability** Stable under ordinary conditions of use and storage.

**Conditions to Avoid** This is an acidic solution that will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc.

**Incompatible Materials** Strong alkalis, powdered metals.

**Hazardous Polymerization** Will not occur.

## 11. Toxicological Information

**Toxicology Information** No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur.

**Ingestion** May burn or irritate gastric tissue. May be harmful if swallowed.

**Inhalation** Inhalation of vapours may irritate nose and throat. Inhalation of mists into lungs can cause pneumonitis.

**Skin** Not considered a hazard with normal laboratory use.

**Eye** May be irritating to eye tissue.

**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 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.

**Chronic Effects** Repeated or prolonged skin contact may cause severe irritation or dermatitis.

## 12. Ecological information

**Ecological Information** No ecological problems are to be expected when the product is handled and used with due care and attention.

## 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** Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are alkalis and Class 7.

**U.N. Number** 3264

**UN proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. - (Contains nitric acid 2%)

**Transport hazard class(es)** 8

**Hazchem Code** 2X

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**Packing Group** III

**IERG Number** 37

## 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** S5

## 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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