



Infosafe No™	1CHC5	Issue Date : December 2015	RE-ISSUED by CHEMSUPP
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Product Name : **ACETO-ORCEIN STAIN**

Classified as hazardous

1. Identification**GHS Product Identifier** ACETO-ORCEIN STAIN**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** Microscopy dye solution and laboratory reagent.
This product supplied by Chem-Supply is for education/research use only.

Other Names	Name	Product Code
	ACETO-ORCEIN STAIN LR	AL025

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. 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 Chem-Supply 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 Chem-Supply 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** Skin Corrosion/Irritation: Category 1A**Signal Word (s)** DANGER**Hazard Statement (s)** H314 Causes severe skin burns and eye damage.**Pictogram (s)** Corrosion

Precautionary statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P405 Store locked up.
Precautionary statement – Storage	
Precautionary statement – Disposal	P501 Dispose of contents/container to licensed waste disposal plant.

3. Composition/information on ingredients



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Chemical Characterization	Liquid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Water	7732-18-5	40-70 %		
	Acetic acid	64-19-7	30-60 %		
	Orcein	1400-62-0	0-1 %		

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 medical attention is required.
Ingestion	Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek immediate medical advice.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Remove contaminated clothing and wash before re-use. Seek immediate medical advice.
Eye contact	Immediately irrigate with copious quantity of water continuously. Eyelids to be held open. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically as for strong acids. 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	May liberate toxic fumes in fire such as oxides of carbon.
Specific Methods	Small fire: Use dry chemical, CO ₂ or water spray. Large fire: Use dry chemical, CO ₂ , foam or water spray - Do not use water jets. If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside containers.
Hazchem Code	2X
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

6. Accidental release measures

Spills & Disposal	ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Cover with plastic sheet to prevent spreading. Absorb with earth, sand or other non-combustible material and transfer to container. DO NOT GET WATER INSIDE CONTAINERS. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Precautions	Evacuate the area of all non-essential personnel. 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	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Other Information	Elimination of harmful effect: Neutralize with diluted sodium hydroxide solution.

7. Handling and storage

Precautions for Safe Handling	Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed and in a well-ventilated place. Keep away from heat and other sources of ignition. Store at room temperature (15 - 25 °C). Store away from strong bases. Store away from oxidizing agents.
Corrosiveness	Attacks most common metals, including some stainless steels.



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Storage Regulations Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.**Unsuitable Materials** Metals.**8. Exposure controls/personal protection**

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m ³	ppm	mg/m ³	ppm	
	Acetic acid	37	15	25	10	
Other Exposure Information	A time weighted average (TWA) has been established for acetic acid (Safe Work Australia) of 25 mg/m ³ , (10 ppm). The corresponding STEL level is 37 mg/m ³ , (15 ppm). The STEL (Short Term Exposure Limit) 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.					
Appropriate engineering controls	In industrial situations 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	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
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	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Neoprene gloves Vinyl gloves. Nitrile rubber gloves Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					
Footwear	Rubber boots.					
Body Protection	Flame retardant protective clothing. 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	Liquid
Appearance	Dark red liquid.
Odour	Pungent odour of acetic acid.
Boiling Point	105 °C
Solubility in Water	Miscible.
Specific Gravity	1.03
pH	2
Vapour Pressure	18 mm Hg @ 25 °C
Odour Threshold	0.2 - 1 ppm
Flammability	Combustible.

10. Stability and reactivity**Chemical Stability** Stable under normal use conditons.**Conditions to Avoid** Strong heating.



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Incompatible Materials	Oxidising agents, strong bases, chromic acid, sodium peroxide, nitric acid, amines, potassium permanganate, alcohols, aldehydes, anhydrides/water, ethanolamine, halogen-halogen compounds, non-metallic halides, alkali hydroxides and metals. Soluble carbonates.
Hazardous Decomposition Products	Oxides of carbon.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 3310 mg/kg - Acetic acid.
Acute Toxicity - Dermal	LD50 (rabbit): 1060 mg/kg - Acetic Acid
Acute Toxicity - Inhalation	LCLO (rat): 11.4 mg/l hours - Acetic acid.
Ingestion	Burns to the mucous membranes of the oesophagus and stomach; spasms, vomiting, dyspnoea. Risk of perforation in the oesophagus and stomach. Risk of aspiration upon vomiting. Systemic effect: cardiovascular failure, acidosis, drop in blood pressure, cardiac dysrhythmia, circulatory collapse and renal failure, bloody diarrhoea and death. Causes damage to the kidneys.
Inhalation	The vapour is an irritant to the mucous membranes and respiratory tract. May cause bronchitis, pneumonia and respiratory oedema.
Skin	Causes burns. Contact with skin will result in severe irritation.
Eye	Liquid will cause burns. May cause permanent injury. High concentrations of vapours will cause irritation.
Carcinogenicity	Not listed in the IARC Monographs.
Chronic Effects	Long term exposure may lead to dental erosion, skin thickening and discolouration, chronic irritation of nose and throat and conjunctivitis.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	The following applies to acetic acid in general: Toxic for aquatic organisms. Harmful effect due to pH shift. Easily eliminable.
Persistence and degradability	Biological degradation: Distribution: log P(o/w): -0.17.
Mobility	Product miscible in water.
Bioaccumulative Potential	Low probability of bioaccumulation (log P(o/w) < 1).
Other Precautions	Do not allow to enter waters, waste water, or soil!
Environmental Protection	Avoid contaminating waterways. Harmful to aquatic life.
Acute Toxicity - Fish	The following applies to acetic acid in general: LC50 (L. macrochirus): 75 mg/l/96h. LC50 (P. promelas): 88 mg/l/96h.
Acute Toxicity - Daphnia	The following applies to acetic acid in general: LC50 (Daphnia magna): 47 mg/l/24 h.
Acute Toxicity - Algae	The following applies to acetic acid in general: IC5 (Sc. quadricauda): 4000 mg/l/16h
Acute Toxicity - Bacteria	The following applies to acetic acid in general: EC5 (Ps. putida): 2850 mg/l/16h neutral. EC50 (Photobacterium phosphoreum): 11 mg/l/15 min microtox test.
Acute Toxicity - Other Organisms	Protozoa: The following applies to acetic acid in general: Toxicity limit: IC5 (E. sulcatum): 78 mg/l.72h neutral.

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.
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14. Transport information



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Transport Information	Dangerous goods of Class 8 (Corrosive) 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 acids, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	II
EPG Number	8A1
IERG Number	37

15. Regulatory information

Poisons Schedule	S5
Hazard Category	Corrosive

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015. 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 for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', 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)]'. Paul McCarthy Ph. (08) 8440 2000
Contact Person/Point	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. Chem-Supply 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. ...End Of MSDS...

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