

Infosafe No™ 1CHC5 Issue Date : December 2020 RE-ISSUED by CHEMSUPP

Product Name **ACETO-ORCEIN STAIN**

Classified as hazardous

1. Identification

GHS Product Identifier ACETO-ORCEIN STAIN

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Telephone/Fax Number Tel: (08) 8440-2000

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E-mail Address www.chemsupply.com.au

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 | <u>Name</u> | <u>Product Code</u> |
|--------------------|-----------------------|----------------------------|
| | ACETO-ORCEIN STAIN LR | AL025 |

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 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.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Precautionary statement – Storage P405 Store locked up.

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

3. Composition/information on ingredients

| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|-------------|-------------|------------|-------------------|
| | 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, CO2 or water spray.
Large fire: Use dry chemical, CO2, 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.

Personal Precautions Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid inhaling vapour. 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

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Other Information overdrum.
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.

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/m3 | ppm | mg/m3 | ppm | |
| | Acetic acid | 37 | 15 | 25 | 10 | |
| 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. 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 | 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 | 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 | Flame retardant antistatic 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 | | | | | |

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| Hygiene Measures | Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. |
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9. Physical and chemical properties

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| 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

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| Chemical Stability | Stable under normal use conditons. |
| Conditions to Avoid | Strong heating. |
| 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

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| 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. |
| 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. |

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| STOT-repeated exposure | Not classified based on available information. |
| Chronic Effects | Long term exposure may lead to dental erosion, skin thickening and discolouration, chronic irritation of nose and throat and conjunctivitis. |
| Mutagenicity | Not classified based on available information. |
| Skin corrosion/irritation | Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage. |

12. Ecological information

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| 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. |

13. Disposal considerations

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| 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. - (Contains Acetic acid 30-60%) |
| Transport hazard class(es) | 8 |
| Hazchem Code | 2X |
| Packing Group | II |
| EPG Number | 8A1 |
| IERG Number | 37 |

15. Regulatory information

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| Regulatory Information | All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. |
| Poisons Schedule | S5 |

16. Other Information

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| 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 |
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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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