



Infosafe No™	1CHGP	Issue Date : August 2019	RE-ISSUED by CHEMSUPP
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Product Name : **TANNIC ACID**

Not classified as hazardous

1. Identification

GHS Product Identifier	TANNIC ACID		
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		
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)		
Recommended use of the chemical and restrictions on use	Chemicals (tannates, gallic acid, pyrogallic acid, hydrosols of the noble metals); alcohol denaturant; tanning; textiles (mordant and fixative); electroplating; galvanoplastics (gelatin precipitant); clarification agent in wine manufacture, brewing and foods; writing inks; pharmaceuticals; deodorization of crude oil; photography; paper (sizing, mordant for coloured papers); treatment of minor burns; laboratory reagent.		
Other Names	<u>Name</u>		<u>Product Code</u>
	Digallic acid		
	Tannin		
	TANNIC ACID White LR		TL037
	Gallotannic acid		
	penta-(m-digalloyl)-glucose		
	Gallotannin		
Additional Information	Tannins are a broad group of plant-derived phenolic compounds characterised by their ability to precipitate proteins. Some are more toxic than others, depending on their source. Those derived from nutgalls are believed to be carcinogens, while those found in tea and coffee may be virtually non-toxic.		
Other Information	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	Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.
Signal Word (s)	Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
	None.

3. Composition/information on ingredients

Chemical Characterization	Solid			
Information on Composition	Extraction of powdered nutgalls with water and alcohol.			
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u> <u>Risk Phrase</u>
	Tannic acid	1401-55-4	70-100 %	
Other Information	Tannins are classified according to their behaviour on dry distillation into two groups; condensed tannins, that yield catechol and hydrolysed tannins that yield pyrogallol. The hydrolysed tannins comprise two groups on the basis of its products of hydrolysis, glucose and ellagic acid (1) or gallic acid (2).			

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. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Wash affected areas with copious quantities of water. If irritation occurs seek medical advice.



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Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire (carbon oxides).
Specific Methods	May burn but do not ignite readily. Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing. 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 remove to a 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. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment.
Conditions for safe storage, including any incompatibilities	Store away from oxidizing agents. Store in well ventilated area. Keep containers closed at all times. Store in a cool, dry place. Keep away from direct sunlight and other sources of heat or ignition.

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts or mists when limits have not otherwise been established.
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: Rubber or plastic gloves.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
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.



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9. Physical and chemical properties

Form	Solid
Appearance	Lustrous, faintly yellowish, amorphous powder, glistening scales, or spongy mass.
Odour	Slight characteristic odour.
Melting Point	218 °C
Solubility in Water	Soluble, approx 250g/L at 20°C.
Solubility in Organic Solvents	Soluble in alcohol, acetone. Insoluble in benzene, chloroform and ether.
pH	~ 3.5 (100 g/l, H ₂ O, 20 °C)
Coefficient Water/Oil Distr.	log Pow: -0.19
Flammability	Combustible.
Molecular Weight	1701.28
Other Information	Taste: Strong, astringent taste.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Darkens on exposure to light and air. Hydrolysed to gallic acid and glucose or quinic acid.
Conditions to Avoid	Light, heat, incompatibles.
Incompatible Materials	Strong oxidisers, strong bases. Salts of heavy metals. Lime water, albumin, gelatin and alkaloids.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May cause gastrointestinal discomfort (nausea, vomiting) due to irritant and astringent action after swallowing of large amounts.
Inhalation	Nuisance dust with astringent action. May cause coughing and sneezing. High concentrations can lead to breathing difficulties. Exposure can cause nausea, headache and vomiting.
Skin	Mild irritant and astringent. May cause inflammation on prolonged contact. May be absorbed through open wounds or burns.
Eye	Mild irritant. Cause cause reddennng and tearing, possibly pain and blurred vision.
Carcinogenicity	Tannic acid [1401-55-4] and tannins is evaluated in the IARC Monographs (Vol. 10, Suppl. 7; 1987) as Group 3: Unclassifiable as to carcinogenicity to humans.
Chronic Effects	Prolonged or repeated exposure may cause gastritis, acute ingestion, liver damage and kidney damage.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Bioaccumulative Potential	Not expexted, log Pow: -0.19
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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

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG); by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	Not Scheduled

16. Other Information



chem-supply

Safety Data Sheet

infosafe
CS: 1.7.2

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**Literature
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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 Chemical 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) 3rd Edition]'.

**Contact
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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**Empirical Formula &
Structural Formula**

C76 H52 O26

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