

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Tannic Acid
Catalogue Number: C081
Other Names: Gallotannin; Gallotannic acid; Digallic acid; Glycerite; Tannin.
Recommended Use: Used to set dyes on fabrics or tissue sections, when combined with other substances.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification:
 Not classified as hazardous according to criteria for Classifying Hazardous Substances [NOHSC:1008].
Hazardous and/or Dangerous Nature:
 NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Risk Phrases:
 Not applicable.
Safety Phrases:
 Not applicable.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Mixture Substance:

<i>Ingredients</i>	<i>Cas Number(s)</i>	<i>Proportion (%)</i>
Tannic acid is a mixture of hydrolyzable galloyl tannins.	1401-55-4	0-100

SECTION 4 - FIRST AID MEASURES

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes; lifting lower and upper eyelids occasionally. Get medical attention immediately.
Skin Contact: Wash skin with plenty of water for at least 15 minutes. If irritation develops, get medical attention.
First Aid Facilities: Eyebath/eyewash, Safety shower & general washroom facilities.
Medical Attention & Special Treatment:
 Not specified, treat supportively.

Additional Information:

Pathological findings in experimental animals show evidence of gastritis, liver damage (the usual cause of death) and kidney damage. Persons with pre-existing skin disorders or eye problems, or impaired kidney liver or respiratory function may be more susceptible to the effects of the substance.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water or Water Spray

Hazards from Combustion Products:

Fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard. Carbon dioxide and carbon monoxide may form when heated to decomposition.

Precautions for Fire Fighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Hazchem Code: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment (refer to Section 8).

Containment & Clean up:

Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Keep container lid tightly sealed when not in use. Wear proper protective equipment while handling.

Precautions for Safe Storage:

Keep in a tightly closed container, store in a cool dry ventilated area. Protect against physical damage. Protect from light. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapours may be present could cause a flash fire or explosion due to electrostatic discharge. 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.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No exposure standard allocated.

Biological Limit Values: No biological limit allocated.

Engineering Controls:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source; prevent dispersion of it into the general work area.

Personal Protective Equipment:

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive pressure air supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen deficient atmospheres.

SKIN PROTECTION:

Wear protective gloves and clean body covering clothing.

EYE PROTECTION:

Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Yellowish-tan powder
Odour:	Slight characteristic odour
pH:	Not available.
Vapour pressure (mm of Hg at °C):	Not available.
Vapour density:	Not available.
Boiling point/range (°C):	Not applicable.
Freezing/melting point (°C):	Melting Point 210°C.
Solubility:	1 g/0.35 ml water.
Specific gravity or density:	Not available.
Flash Point:	198°C.
Flammable (explosive) limits:	Not available.
Ignition temperature:	Auto ignition occurs at 526°C. Fire is possible at elevated temperatures or by contact with an ignition source.
Molecular weight:	1701

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Air, light, dusting and incompatibles. (Darkens on exposure to air or light. Hydrolyzed by acids, alkalis or enzymes to gallic acid and glucose or quinic acid.)

Incompatible Materials: Salts of heavy metals, strong oxidizing agents, lime water, albumin, gelatin – alkaloids.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition

Hazardous Reactions: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Chronic exposure: Pathological findings in experimental animals show evidence of gastritis, liver damage (the usual cause of death) and kidney damage. Persons with pre-existing skin disorders or eye problems, or impaired kidney liver or respiratory function may be more susceptible to the effects of the substance.

Ingestion:

Not highly toxic but may cause some gastrointestinal discomfort due to its irritant and astringent action.

Inhalation:

Nuisance dust with astringent action. May cause coughing and sneezing with possible breathing difficulty at high concentrations.

Eye Contact:

Mild irritant. Can cause reddening and tearing possibly pain and blurred vision.

Skin Contact:

Mild irritant and astringent. May cause inflammation on prolonged contact. Contact with open wounds or burns may promote absorption and systemic effects.

Human/Animal data: Investigated as a tumorigen and mutagen Oral rat LD50: 2300 mg/kg.

Carcinogenic Category: Group 3: Not classifiable as to its carcinogenicity to humans.

Other Carcinogenic Information: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: BOD - 38%, 5 day.

Persistence and degradability: Not available.

Mobility: Not available.

Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from Federal disposal regulations. Dispose of container and unused contents in accordance with Federal, State and local requirements.

Special Precautions/Additional Informational:

Not available.

SECTION 14 - TRANSPORT INFORMATION

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Class and Subsidiary risk: Not regulated.

Packing Group: Not regulated.

Special Precautions for User: Not available.

Hazchem Code: Not available.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None Allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: June 11

Comments:

List of Publications referenced when creating this MSDS;

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.

- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd

Edition: National Occupational Health and Safety Commission.

- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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