

1. IDENTIFICATION

Product Name Tannic Acid

Other Names Gallotannic acid; Gallotannin; Tanal WB

Uses For professional use only. Chemicals for the food industry; Textile industries; Pharmaceutical intermediate.

Chemical Family No Data Available **Chemical Formula** C76H52O46 **Chemical Name Tannins**

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

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Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location Telephone Poisons Information Centre Westmead NSW 1800-251525 131126 Chemcall Australia 1800-127406 +64-4-9179888 +64-4-9179888 Chemcall Malaysia Chemcall New Zealand 0800-243622 +64-4-9179888 National Poisons Centre New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

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2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Adelaide

Brisbane

Perth

Sydney

Melbourne



Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Tannic acid	C76H52O46	1401-55-4	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give water to drink. Do not induce vomiting unless directed to do so by medical

personnel. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with (lukewarm) running water for several minutes, holding eyelids open and Eye

occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at

least 15 minutes. If eye irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and (lukewarm) water. Take off contaminated clothing and wash it before reuse. If

skin irritation occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If

respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer

oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically.

*Consult a physician after significant exposure.

Medical Conditions Aggravated by No information available.

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

*All extinguishing agents can be used.

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a Fire and Explosion Hazard

potential dust explosion hazard.

Hazardous Products of

Combustion

Fire may produce irritating and/or toxic fumes, including Sulphur oxides, Carbon monoxide, Carbon dioxide, Nitrogen

oxides.

470 °C

Special Fire Fighting Instructions

Contain runoff from fire control water - Runoff may cause pollution.

Personal Protective Equipment

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point 198 °C

Lower Explosion LimitNo Data AvailableUpper Explosion LimitNo Data Available

Auto Ignition Temperature

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through

spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Pick up spill and place in a closed container for recovery or disposal (see SECTION 13).

*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.

Containment Stop leak if you can do it without risk. Prevent dust cloud.

Decontamination Dilute residues and flush.

Environmental Precautionary

Measures

Evacuation Criteria

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). WARNING: May form combustible dust concentrations in air! Eliminate every possible source of ignition - No smoking. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Storage Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid exposure to air

and moisture. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see

SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3 (total); TWA = 3 mg/m3 (respirable).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures 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, preventing dispersion of it into the general work area.

Personal Protection Equipment

- Respiratory protection: Not normally required. Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended: Dust mask/particulate respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety goggles.
- Hand protection: Handle with gloves. Recommended: Chemical-resistant gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Coveralls.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

Odour Mild, characteristic

Colour Pale yellow - beige
pH "3.5 (at 20 °C)

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point No Data Available

Melting Point Decomposes before melting

Freezing Point No Data Available
Solubility Soluble in water
Specific Gravity No Data Available

Flash Point 198 °C Auto Ignition Temp 470 °C

Evaporation RateNo Data AvailableBulk DensityNo Data AvailableCorrosion RateNo Data Available

Decomposition Temperature >210 °C

0.3 - 0.5 g/cm3 Density **Specific Heat** No Data Available No Data Available **Molecular Weight Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available **Vapour Temperature** No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

No information available.

Properties That May Initiate or Contribute to Fire Intensity

May burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire/decomposition may produce irritating and/or toxic fumes, including Sulphur oxides, Carbon monoxide, Carbon

dioxide, Nitrogen oxides.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information Light sensitive.

The product is stable at normal handling and storage conditions. **Chemical Stability**

Conditions to Avoid Avoid generating dust. Keep away from heat and sources of ignition. Avoid exposure to moisture, air and light.

Materials to Avoid Incompatible/reactive with strong oxidising agents, strong bases.

Hazardous Decomposition

Products

May decompose on exposure to high temperature, releasing toxic gases, including Sulphur oxides, Carbon monoxide,

Carbon dioxide, Nitrogen oxides.

Hazardous Polymerisation Does not occur.

11. TOXICOLOGICAL INFORMATION

General Information Information on possible routes of exposure:

- Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. This material may be health hazardous if ingested in large quantities. May cause gastrointestinal discomfort due to its irritant and astringent action; Nausea; Affects the liver.
- Eye contact: Not expected to be an irritant to eyes. May cause minor eye irritation. Can cause reddening and tearing, possibly pain and blurred vision.
- Skin contact: Not expected to be an irritant. Initial moderate skin irritation. May cause inflammation on prolonged contact. Contact with open wounds or burns may promote absorption and systemic effects.
- Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Nuisance dust with astringent action. May cause coughing and sneezing with possible breathing difficulty at high concentrations. Chronic effects: Pathological findings in experimental animals show evidence of gastritis, liver damage and kidney damage. Tannic acid and tannins (CAS No. 1401-55-4) are classified by the IARC Monographs as "Not classifiable as to its carcinogenicity to humans" (Group 3).

Acute

Acute toxicity (Oral): Ingestion

> - LD50, Rat: 2,260 mg/kg - LD50, Mouse: 5,000 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Gambusia affinis): 37 mg/l (96 h).

Persistence/Degradability
No information available.

Mobility
No information available.

Environmental Fate Harmful to aquatic life - Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container via a licensed disposal company and in accordance with local/regional/national

regulations.

Special Precautions for Land Fill No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Tannic acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Tannic acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Tannic acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name Tannic acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Tannic acid Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
UN Number
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information TANNIC ACID is listed in the SUSMP, Appendix B (Substances considered not to require control by scheduling). Reasons

for entry: Low toxicity (Any use).

Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) 215-753-2

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Related Product Codes

TANNIC0100, TANNIC0200, TANNIC0300, TANNIC0500, TANNIC0600, TANNIC0700, TANNIC1000, TANNIC1001, TANNIC1002, TANNIC1003, TANNIC1004, TANNIC1005, TANNIC1006, TANNIC1007, TANNIC1008, TANNIC1009, TANNIC1010, TANNIC1011, TANNIC1012, TANNIC1013, TANNIC1086, TANNIC1096, TANNIC1100, TANNIC1186, TANNIC1196, TANNIC1200, TANNIC1300, TANNIC1500, TANNIC1501, TANNIC2000, TANNIC2001, TANNIC2002, TANNIC2003, TANNIC2004, TANNIC2200, TANNIC2300, TANNIC2400, TANNIC2410, TANNIC2420, TANNIC2450, TANNIC2496, TANNIC2500, TANNIC3000, TANNIC3001, TANNIC3100, TANNIC3200, TANNIC3300, TANNIC3400,

TANNIC3500, TANNIC3501, TANNIC3600, TANNIC3700, TANNIC3800, TANNIC4000, TANNIC4100, TANNIC4200, TANNIC4300, TANNIC4400, TANNIC4500, TANNIC4500, TANNIC4500, TANNIC4500, TANNIC4500, TANNIC5200, TANNIC5300, TANNIC5400, TANNIC5800, TANNIC5900, TANNIC6000, TANNIC6001, TANNIC6100, TANNIC6101, TANNIC6200, TANNIC6201, TANNIC6300, TANNIC6301, TANNIC6400, TANNIC6401, TANNIC6500, TANNIC6501, TANNIC6502, TANNIC6600, TANNIC6700, TANNIC7000, TANNIC7100, TANNIC7200, TANNIC7300, TANNIC7301, TANNIC7400, TANNIC7600, TANNIC7700, TANNIC7701, TANNIC7702, TANNIC8000, TANNIC8100, TANNIC8200, TANNIC8300, TANNIC9000, TANNIC9300, TANNIC9500, TANNIC9600, TANNIC9700, TANNIC9801, TANNIC9900

Revision

AICS Australian Inventory of Chemical Substances

atm Atmosphere

4

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury inH2O Inch of Water

K Kelvin **kg** Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or **L** Litre

 ${\bf m^3}$ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m3 Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours UN United Nations wt Weight