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## MATERIAL SAFETY DATA SHEET (MSDS)

### TANNIC ACID AR (GALLOTANNIC ACID)

#### 1. Product Identification

**Synonyms:** Gallotannin; Gallotannic acid; Digallic Acid, Glycerite, Tannin  
**CAS No.:** 1401-55-4

Product Coad: T0201000500

**Molecular Weight:** 1701

**Chemical Formula:** Tannic acid is a mixture of hydrolyzable galloyl tannins.

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Tannic Acid	1401-55-4	100%	Yes

#### 3. Hazards Identification

**Emergency Overview WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED. LARGE AMOUNTS CAN CAUSE LIVER AND KIDNEY DAMAGE.** **Inhalation:** Nuisance dust with astringent action. May cause coughing and sneezing with possible breathing difficulty at high concentrations. **Ingestion:** Not highly toxic but may cause some gastrointestinal discomfort due to its irritant and astringent action. **Skin Contact:** Mild irritant and astringent. May cause inflammation on prolonged contact. Contact with open wounds or burns may promote absorption and systemic effects. **Eye Contact:** Mild irritant. Can cause reddening and tearing, possibly pain and blurred vision. **Chronic Exposure:** Pathological findings in experimental animals show evidence of gastritis, liver damage (the usual cause of death) and kidney damage. **Aggravation of Pre-existing Conditions:** 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.

#### 4. First Aid Measures

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty. **Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. **Skin Contact:** Wash skin with plenty of water for at least 15 minutes. If irritation develops, get medical attention. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### 5. Fire Fighting Measures

**Fire:** Flash point: 198C (388F) Autoignition temperature: 526C (979F) Fire is possible at elevated temperatures or by contact with an ignition source. **Explosion:** Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. **Fire Extinguishing Media:** Water or water spray. **Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: 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

#### 7. Handling and Storage

Keep in a tightly closed container, stored 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 vapors 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.

#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** None established.

**Ventilation System:** 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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

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**Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. 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

#### 9. Physical and Chemical Properties

**Appearance:** Yellowish-tan powder. **Odor:** Slight characteristic odor. **Solubility:** 1 g/0.35 ml water **Melting Point:** ca. 210C (ca. 410F)

#### 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage. Darkens on exposure to air or light. Hydrolyzed by acids, alkalis or enzymes to gallic acid and glucose or quinic acid. **Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition. **Hazardous Polymerization:** Will not occur. **Incompatibilities:** Salts of heavy metals, strong oxidizing agents, lime water, albumin, gelatin, alkaloids. **Conditions to Avoid:** Air, light, dusting, and incompatibles.

#### 11. Toxicological Information

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

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Tannic Acid (1401-55-4)	No	No	3

#### 12. Ecological Information

**Environmental Fate:** BOD - 38%, 5-jours. **Environmental Toxicity:** No information found.

#### 13. Disposal Considerations

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.

#### 14. Transport Information

Not regulated.

#### 15. Regulatory Information

N/A

#### 16. Other Information

**NFPA Ratings:** Health: 1 Flammability: 1 Reactivity: 0 **Label Hazard Warning:** WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED. LARGE AMOUNTS CAN CAUSE LIVER AND KIDNEY DAMAGE. **Label Precautions:** Avoid breathing dust. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container closed. Wash thoroughly after handling. **Label First Aid:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. **Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

#### DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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