

# Material Safety Data Sheet

## Tannic acid

ACC# 22410

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Tannic acid

**Catalog Numbers:** AC202420000, AC202420010, AC202420050, AC202425000, AC419990000, AC419991000, AC419995000, A310-500

**Synonyms:** Gallotannin; Glycerite; Gallotannic acid; Digallic acid; Tannin

**Company Identification:**

Fisher Scientific  
1 Reagent Lane  
Fair Lawn, NJ 07410

**For information, call:** 201-796-7100

**Emergency Number:** 201-796-7100

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1401-55-4	Tannic acid	>95	215-753-2

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: yellow-brown powder.

**Caution!** May cause eye, skin, and respiratory tract irritation.

**Target Organs:** Kidneys, liver, skin.

#### Potential Health Effects

**Eye:** May cause eye irritation. Lachrymator (substance which increases the flow of tears). May cause redness, pain, blurred vision and possible eye damage.

**Skin:** May cause skin irritation. May be absorbed through the skin in harmful amounts. Direct contact may produce erythema (redness) and pain.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver damage.

**Inhalation:** May cause respiratory tract irritation.

**Chronic:** Chronic ingestion may cause liver damage. Prolonged or repeated eye contact may cause conjunctivitis.

### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** 199 deg C ( 390.20 deg F)

**Autoignition Temperature:** 527 deg C ( 980.60 deg F)

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 1

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

**Storage:** Store in a cool, dry place. Store in a tightly closed container. Store protected from light and air.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tannic acid	none listed	none listed	none listed

**OSHA Vacated PELs:** Tannic acid: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder  
**Appearance:** yellow-brown  
**Odor:** faint odor  
**pH:** Weak acid in water.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** 200 deg C (dec)  
**Freezing/Melting Point:** Not available.  
**Decomposition Temperature:** 200 deg C  
**Solubility:** Soluble.  
**Specific Gravity/Density:** Not available.  
**Molecular Formula:** C<sub>7</sub>H<sub>5</sub>O<sub>4</sub>  
**Molecular Weight:** 170.122

## Section 10 - Stability and Reactivity

**Chemical Stability:** Air sensitive. Moisture sensitive. Light sensitive.  
**Conditions to Avoid:** Dust generation, moisture, temperatures above 200°C, prolonged exposure to air, excess light.  
**Incompatibilities with Other Materials:** Strong oxidizing agents; strong bases.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**  
**CAS#** 1401-55-4: FM3015000; PY7955000; UZ3400000; WU7185000; WW5075000  
**LD50/LC50:**  
CAS# 1401-55-4:  
Oral, rabbit: LD50 = 5 gm/kg;  
Oral, rat: LD50 = 2260 mg/kg;

**Carcinogenicity:**  
CAS# 1401-55-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Has been found to cause cancer in laboratory animals. Tumorigenic effects have been reported in experimental animals.  
**Teratogenicity:** Teratogenic effects have occurred in experimental animals.  
**Reproductive Effects:** Adverse reproductive effects have occurred in experimental animals.  
**Mutagenicity:** Mutagenic effects have occurred in experimental animals.  
**Neurotoxicity:** No information found  
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Mosquito Fish: LC50 = 37 mg/L; 96 Hr.; Unspecified No data available.

**Environmental:** No information available.

**Physical:** No information available.

**Other:** Do not empty into drains.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	Not Regulated.	Not Regulated.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 1401-55-4 is listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### SARA Codes

CAS # 1401-55-4: immediate.

**Section 313** No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 1401-55-4 can be found on the following state right to know lists: California.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:**

Not available.

**Risk Phrases:**

**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

CAS# 1401-55-4: 1

**Canada - DSL/NDSL**

CAS# 1401-55-4 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

<b>Section 16 - Additional Information</b>
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**MSDS Creation Date:** 6/23/1999

**Revision #9 Date:** 2/15/2008

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