

TANNIC ACID, (GALLOTANNIN), EXTRA PURE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: TANNIC ACID, (GALLOTANNIN), EXTRA PURE

Product Code: 2782.

CAS#: 1401-55-4.

Synonym: Tannin; Gallotannic acid; Gallotannin

Chemical Name: Tannic Acid.

Chemical Formula: C₇₆H₅₂O₄₆

Formula Weight: 1701.20

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: Tannic Acid

Toxicological Data on Ingredients:

Skin irritation (Category 2), H315, R38

Eye irritation (Category 2), H319, R36

STOT – SE – (Category 3), H335, R37

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.

MUTAGENIC EFFECTS: Not Available.

TERATOGENIC EFFECTS: Not Available.

DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. The substance may be toxic to kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin contact: Not Available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation: Not Available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not Available

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 527°C.

Flash Points: OPEN CUP: 199°C.



Flammable Limits: Not Available.

Products of Combustion: Carbon oxides.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances: Not Available.

Risks of explosion of the product in presence of mechanical impact: Not Available.

Fire Fighting Media and Instructions:

Small fire: Use DRY chemical powder.

Large fire: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: As with most organic solids, fire is possible at elevated temperatures.

Special Remarks on Explosion Hazards: Not Available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirement

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Yellowish white to light brown powder
Odor	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available

Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Iconicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials, light.

Incompatibility with various substances: Reactive with oxidizing agents, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Light sensitive. When heated to decomposition, it emits acrid smoke and fumes.

Solutions of tannic acid in glycerin are relatively stable.

Special Remarks on Corrosivity: Not Available.

Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Ingestion, Inhalation.

Toxicity to Animals:

LD₅₀: Oral – Rat – 2260 mg/kg.

Chronic Effects on Humans: Not Available.

Other Toxic Effects on Humans: May affect genetic material (mutagenic). May cause adverse reproductive effects.

May cause cancer based on animal test data.

Special Remarks on Toxicity to Animals: Not Available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic).

Remarks on other Toxic Effects on Humans: Dust may cause respiratory tract irritation. Expected to be low in toxicity and a low hazard. It may affect respiration (dyspnea). Prolonged or repeated ingestion may cause anorexia and weight loss. Medical Conditions. Which may be aggravated by Exposure: untreated Phenylketonuria. It will increase the phenylalanine level in the blood of those individuals with Phenyltonuria.

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity:

LC₅₀: Gambusia affinis (Mosquito fish) – 37 mg/l – 96 h

BOD and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:



ADR/RID: UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods Transport hazard class (es): ADR/RID: Packaging group: ADR/RID: Environmental hazards: ADR/RID: No Special precautions for user: No data available	IMDG: IMDG: IMDG Marine pollutant: No	IATA: IATA: IATA: IATA: No
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Further information: Not classified as dangerous in the meaning of transport regulations

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Tannic Acid.

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC): R36/R37/R38.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves, Lab coat, Safety glasses, Dust respirator - be sure to use an approved/certified respirator or equivalent.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

H315, R38 – Causes skin irritation.

H319, R36 – Causes serious eye irritation.

H335, R37 – May cause respiratory irritation.

STOT – SE – Specific Target Organ Toxicity – Single Exposure

Other Special Considerations: Not available.

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