Material Safety Data Sheet

TANNIC ACID

Date of Issue: January 1st, 2012

Health	3
Fire	1
Reactivity	0

Personal Protection E

1. PRODUCT IDENTIFICATION

Synonyms: Gallotannin; Gallotannic acid; Digallic Acid, Glycerite, Tannin

CAS NO: 1401-55-4

Molecular Weight: 1701

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

Supplier of MSDS: SandsoftheDesert.com PO BOX 595

Fairland, OK 74343 (918) 708-1810

Emergency Number: CHEMTREC 1-800-424-9300

International CHEMTREC 1-703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient: Tannic Acid

CAS NO: 1401-55-4

Percent: 100%

Hazardous: Yes

3. HAZARDS IDENTIFICATION

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED. LARGE AMOUNTS CAN CAUSE LIVER AND KIDNEY DAMAGE.

Health Rating: 3 - Severe (Cancer Causing)

Flammability Rating: 1 - Slight

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: Goggles; Lab Coat; Vent Hood; Proper Gloves

Storage Color Code: Blue (Health)

Potential Health Effects: Acute and chronic systemic effects in man from normal routes of exposure to tannins/tannic acid have not been well documented.

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

Flash point: 198C (388F)

Autoignition temperature: 526C (979F)

Fire: Fire is possible at elevated temperatures or by contact with an ignition source.

Fire Extinguishing Media: Water or water spray.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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.

Personal Respirators (NIOSH Approved): 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellowish-tan powder.

Odor: Slight characteristic odor.

Solubility: 1 g/0.35 ml water

3

Density: No information found.

PH: No information found.

Percent Volatiles by volume @ 21C (70F): 0

Boiling Point: Not applicable.

Melting Point: ca. 210C (ca. 410F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

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

CAS 1401-55-4: FM3015000; PY7955000; UZ3400000; WU7185000; WW5075000

LD50/LC50: Oral, rabbit: LD50 = 5 gm/kg; Oral, rat: LD50 = 2260 mg/kg;

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

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

Epidemiology: Has been found to cause cancer in laboratory animals. Tumorigenic effects have been

reported in experimental animals.

12. ECOLOGICAL INFORMATION

Environmental Fate: BOD - 38%, 5 day.

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

TSCA: Listed on the TSCA inventory.

Health & Safety Reporting List: Not on the Health & Safety Reporting List.

Chemical Test Rules: Not under the Chemical Test Rule.

TSCA Significant New Use Rule: Does not have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs: Does not apply, no RQ.

SARA Section 302 Extremely Hazardous Substances: Does not apply, no TPQ.

SARA Codes: Immediate.

Section 313: Not reportable under 313.

Clean Air Act: This material does not contain any hazardous air pollutants.

Clean Water Act: Not listed as Hazardous, Priority, or Toxic under the CWA.

OSHA: Not considered highly hazardous by OSHA.

State Right To know Lists: California, California Prop 65

California Significant Risk Level: Not listed.

Chemical Weapons Convention: No

TSCA 12(b): No

CDTA: No

SARA 311/312: Acute Yes; Chronic No; Fire No; Pressure No

Reactivity: No (Pure / Solid)

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products

Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

NFPA Ratings: Health 1; Flammability 1; Reactivity 0

Product Use: Laboratory Reagent. **Revision Information:** No changes.

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.

!!! DISCLAIMERS AND WARRANTIES OF INFORMATION!!!

THE COMPANY OR PERSON FROM WHICH THIS CHEMICAL WAS PURCHASED, THE SUPPLIER, PROVIDES THIS INFORMATION 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. INDIVIDUALS RECEIVING THE INFORMATION MUST EXERCISE THEIR INDEPENDENT JUDGMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. THE SUPPLIER MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. THE SUPPLIER WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF THE CHEMICAL DESCRIBED ABOVE OR FROM RELIANCE UPON THIS INFORMATION.
