



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
010	Health Hazard 2 Fire Hazard 1	
<u> </u>	Reactivity (0)	See Section 15.

Section 1. Chemical Product and Company Identification Page Number: 1				
Common Name/ Trade Name	Tannic acid	Catalog Number(s).	YY815, T1010, T1011, T1013	
		CAS#	1401-55-4	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	WW5075000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Tannic acid	
Commercial Name(s)	Not available.	CI#	Not applicable.	
Synonym	Not available.	IN CACE OF		
Chemical Name	Tannic Acid		- IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300	
Chemical Family	Acid.		516-8000	
Chemical Formula	C76-H52-O46			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

		***	Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Tannic acid	1401-55-4				100

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 Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. 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.

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Section 4. Firs	t 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. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove

before reuse. Get medical attention.

Serious Skin Contact

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes

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

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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion Not available.

Section 5. Fire and Explosion Data

٠.	Flammability of the Product	iviay be combustible at high temperature.	
	Auto-Ignition Temperature	526.67°C (980°F)	

Flash Points OPEN CUP: 198.89°C (390°F).

Flammable Limits Not available.

Products of Combustion These products are carbon oxides (CO, CO2).

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

Explosion Hazards in Presence Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

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

Special Remarks on Explosion Not available.

Section 6. Accidental Release Measures

Hazards

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize
-	the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the
	contaminated surface and dispose of according to local and regional authority requirements.

Large Spill

Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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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. Sensitive to light. Store in light-resistant containers.			
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	f 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 a	and Chemical Properties			
Physical state and appearance	Solid. (Powdered solid.)	Odor	Characteristic. (Slight.)	
Molecular Weight	1701.28 g/mole	Taste	Astringent.	
pH (1% soln/water)	Acidic.	Color	White to yellowish to light brown	
Boiling Point	Not available.			
Melting Point	200°C (392°F)			
Critical Temperature	Not available.			
Specific Gravity	Not available.			
Vapor Pressure	Not applicable.			
Vapor Density	Not available.			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water, acetone.	.,,		
Solubility	Easily soluble in acetone. Soluble in cold water. Insoluble in diethyl ether.			
Section 10. Stability a	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.			

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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. Toxicole	Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 2260 mg/kg [Rat].		
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. May cause damage to the following organs: kidneys, liver.		
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause adverse reproductive effects. May cause cancer based on animal test data.		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. It may be absorbed through broken, abraded, or burned skin. Eyes: Causes eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation (gastritis) with abdominal pain, nausea, vomiting, diarrhea, constipation, and ulceration or bleeding from the stomach. May affect liver(hepatits, jaundice, hepatic necrosis), behavior(somnolence, ataxia, convulsions), urinary tract(kidney damage, nephritis, renal failure, acute tubular necrosis), respiration(dyspnea, respiratory depression, chronic pulmonary edema), metabolism, blood. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion cause symptoms similar to that of acute ingestion.		

Section 12. Ecological Information			
Ecotoxicity	Ecotoxicity in water (LC50): 37 mg/l 96 hours [Mosquito fish].		
BOD5 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 15. Other Regulatory Information and Pictograms California Director's list of Hazardous Substances: Tannic acid Federal and State TSCA 8(b) inventory: Tannic acid Regulations California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. Proposition 65 California prop. 65: This product contains the following ingredients for which the State of California has found Varnings to cause birth defects which would require a warning under the statute: No products were found. OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). Other Regulations EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. CLASS D-2B: Material causing other toxic effects (TOXIC). Other Classifications WHMIS (Canada) S24/25- Avoid contact with skin and eyes. DSCL (EEC) R36/37/38- Irritating to eyes, S26- In case of contact with eyes, rinse respiratory system and skin. immediately with plenty of water and seek medical advice. S36- Wear suitable protective clothing. Health Hazard 2 **National Fire Protection** Flammability HMIS (U.S.A.) Association (U.S.A.) Fire Hazard Health Reactivity Reactivity 0 Specific hazard

WHMIS (Canada) (Pictograms)



Personal Protection

E

DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



Tannic acid

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ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section	16.	Other	Information

MSDS Code

T3020

References

Not available.

Other Special

Considerations

Not available.

Validated by Sonia Owen on 8/25/2006.

Verified by Sonia Owen. Printed 9/14/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.