

SAFETY DATA SHEET

Creation Date 10-Feb-2011

Revision Date 26-Mar-2024

Revision Number 4

1. Identification

Product Name

Tannic acid

Cat No. :

A17022

1401-55-4

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Gallotannic acid; Gallotannin; Glycerite

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 2

Label Elements

Signal Word Warning

Hazard Statements Causes serious eye irritation



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Tannic acid	1401-55-4	<100

	4. First-aid measures
General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Get medical attention if symptoms occur. Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	198 °C / 388.4 °F
Method -	No information available
Autoignition Temperature	527 °C / 980.6 °F
Explosion Limits	

NFPA

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	•	on. Use personal protective equ	ipment as required. Avoid dust
Environmental Precautions	formation. Should not be released inte sewer system.	o the environment. Do not flush	into surface water or sanitary
Methods for Containment and Cle Up	ean Sweep up and shovel into containers for disposal.	suitable containers for disposal	. Keep in suitable, closed
	7. Handling	and storage	
Handling	Wear personal protective e ingestion and inhalation. A	equipment/face protection. Ensu void dust formation. Do not get	rre adequate ventilation. Avoid in eyes, on skin, or on clothing.
Storage.		sed in a dry, cool and well-vent Materials. Strong oxidizing ag	ilated place. Store under an inert ents. Strong bases.
8.	Exposure controls	/ personal protection	on
Exposure Guidelines		ain any hazardous materials w gion specific regulatory bodies.	th occupational exposure
Engineering Measures		on, especially in confined areas. ose to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection		re eyeglasses or chemical safet ection regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protectiv	e gloves and clothing to prever	it skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MS	or regulations found in 29 CFR HA or European Standard EN led or if irritation or other sympt	
Recommended Filter type:	Particle filter.		

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	· · · ·
Physical State	Powder Solid
Appearance	Dark yellow
Odor	Slight
Odor Threshold	No information available
рН	3.5 100 g/L (20°C)
Melting Point/Range	218 °C / 424.4 °F
Boiling Point/Range	No information available
Flash Point	198 °C / 388.4 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	527 °C / 980.6 °F
Decomposition Temperature	218 °C
Viscosity	Not applicable
Molecular Formula	C76 H52 O46
Molecular Weight	1701.23

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Air sensitive. Light sensitive.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light. Exposure to air.	
Incompatible Materials	Strong oxidizing agents, Strong bases	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO ₂)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information	No acute toxicity information is available for this product		
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tannic acid	LD50 = 2260 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products Delayed and immediate effects	No information available as well as chronic effects from sh	ort and long-term exposu	re
Irritation	No information available		
Sensitization	No information available		

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Tannic acid	1401-55-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effects		No information ava	ilable.			
Developmental Effect	S	No information ava	ailable.			
Teratogenicity		No information ava	ilable.			
STOT - single exposu STOT - repeated expo		None known None known				
Aspiration hazard		No information ava	ilable			
Symptoms / effects,b delayed	ooth acute and	nd No information available				
Endocrine Disruptor	nformation	No information available				
Other Adverse Effects	5	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity The product contains following substances which are hazardous for the environment. Contains a substance which is:. Harmful to

Persistence and Degradability	Persistence is unlikely
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Tannic acid	-0.19

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT	Not regulated	
_ <u>TDG</u>	Not regulated	
DOT TDG IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Tannic acid	1401-55-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Tannic acid	1401-55-4	Х	-	215-753-2	Х	-		Х	Х	KE-32994

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
		Subject to Authorization	on Certain Dangerous	Candidate List of
		-	Substances	Substances of Very High
				Concern (SVHC)
Tannic acid	1401-55-4	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Tannic acid	1401-55-4	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Compo	onent	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Tannic	acid	1401-55-4	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information				
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com				
Creation Date	10-Feb-2011				
Revision Date 26-Mar-2024 Print Date 26-Mar-2024					
Revision Summary	New emergency telephone response service provider.				

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS