spectrum®



SAFETY DATA SHEET

Preparation Date: 04/29/2015	Revision date 11/28/2018	Revision Number: G2		
1. Identification				
Product identifier				
Product code: Product Name:	G1003 GALLIC ACID, MONOHYDRATE, CRYSTAL, F	REAGENT, ACS		
Other means of identification Synonyms:	3,4,5-trihydroxybenzoic acid, monohydrate Benzoic acid, 3,4,5-trihydroxy-, monohydrate			
CAS #: RTECS # CI#:	5995-86-8 LW7525000 (RTECS no. for anhydrous form) Not available			
Recommended use of the chem	ical and restrictions on use			
Recommended use: Uses advised against	No information available. No information available			
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000			
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)			
2. HAZARDS IDENTIFICATION				

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Label elements

Warning

Hazard statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation

Product name: GALLIC ACID, MONOHYDRATE, CRYSTAL, REAGENT, ACS



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

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. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:	CAS No	Weight-%
Gallic Acid, monohydrate	5995-86-8	100

4. FIRST AID MEASURES

First aid measures	
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Product code: G1003	Product name: GALLIC ACID, Page MONOHYDRATE, CRYSTAL, REAGENT, ACS

Ingestion:		Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.		
Most important symptoms an	d effects, both acute and d	elayed		
Symptoms	Causes skin irritation Irritating to respirator Coughing Sneezing May cause digestive			
Indication of any immediate n	nedical attention and specia	al treatment needed		
Notes to Physician:	Treat symptomaticall	у.		
Protection of first-aiders First-Aid Providers: Avoid expo contaminated clothing and equi		Wear gloves and other necessary protective clothing. Dispose of te.		
	5. FIRE-FIG	HTING MEASURES		
Extinguishing Media Suitable Extinguishing Me	dia:	Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.		
Unsuitable Extinguishing I	Media:	No information available.		
Specific hazards arising	from the chemical			
Hazardous combustion pro	oducts	carbon oxides.		
		May be combustible at high temperatures. When heated to decompositon it emits acrid smoke and irritating fumes.		
Special Protective Actio	ns for Firefighters			
Specific Methods:		No information available		
Special Protective Equipm	ent for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear		

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.	
Methods and material for contain	inment and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.	
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.	
7. HANDLING AND STORAGE		

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest. Keep away from heat and sources of ignition. Protect from moisture. Protect from light. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Protect from light. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Incompatible Materials:

Strong oxidizing agents Strong bases Acid chlorides Acid anhydrides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Formula:	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Gallic Acid, monohydrate	5995-86-8	None	None	None	None

Canada

Formula:	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Gallic Acid, monohydrate	5995-86-8	None	None	None	None

Australia and Mexico

Formula:	CAS No	Australia	Mexico
Gallic Acid, monohydrate	5995-86-8	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Odor: Odorless.	Appearance: Fine crystalline powder. Powder. Taste No information available.	Color: White. White to yellowish. Beige. Off-white. Formula: C7H6O5-H2O
Molecular/Formula weight (g/mole)	: Flammability (solid, gas)	Flashpoint (°C/°F):
188.14 g/mol	no data available	No information available
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
Upper Explosion Limit (%):	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):
No information available	250°C/ 482°F	250-253 °C/482-487 °F

Product name: GALLIC ACID, MONOHYDRATE, CRYSTAL, REAGENT, ACS **Boiling point/range(°C/°F):** No information available

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Bulk density: No information available

pH No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Partially soluble in cold water Insoluble in Benzene Insoluble in Chloroform Insoluble in Petroleum ether **Density (g/cm3):** No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity

Incompatible with acid chlorides, acid anhydrides, ferric salts, chlorates, permanganates, ammonia, lead acetate, alkali hydroxides, carbonates, silver salts, spirit nitrous ether. Reactive with strong oxidizing agents and strong bases Reactive with oxidizing agents Reacts with strong bases

Chemical stability	
Stability:	Hygroscopic. Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	_Hazardous polymerization does not occur
Conditions to avoid:	Heat. Product is sensitive to light and moisture. Exposure to moisture. Exposure to moist air. Exposure to light. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents Strong bases Acid chlorides Acid anhydrides
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.
Other Information	

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

No information available

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Corrosivity:

Acute Toxicity

Component Information

Gallic Acid, monohydrate		
CAS No	5995-86-8	
LD50/oral/rat = No informatio LD50/oral/mouse = No inform LD50/dermal/rabbit = No info LD50/dermal/rat = No informa LC50/inhalation/rat = No info LC50/inhalation/mouse = No Other LD50 or LC50informati	nation available irmation available ation available rmation available	
Product Information		
LD50/oral/rat = Value No information available		
LD50/oral/mouse = Value - Acute Tox Oral = No info	ormation available	
LD50/dermal/rabbit Value No information available		
LD50/dermal/rat VALUE -Acute Tox Dermal = No	information available	
LC50/inhalation/rat VALUE-Vapor = No information a VALUE-Gas = No information ava VALUE-Dust/Mist = No information	ailable	
LC50/Inhalation/mouse VALUE-Vapor = No information a VALUE - Gas = No information av VALUE - Dust/Mist = No informa	vailable	
Symptoms_		
Skin Contact:	Causes skin irritation.	
Eye Contact:	Causes eye irritation.	
Inhalation	Irritating to respiratory system. Symptoms may include coughing and sneezing	ng.
Ingestion	May cause digestive (gastrointestinal) tract irritation with nausea, vomiting, diarrhea. May affect the liver, urinary system, respiratory system (chronic pulmonary edema).	
Aspiration hazard	No information available.	
Delayed and immediate effects a	as well as chronic effects from short and long-term exposure	
Chronic Toxicity	Prolonged or repeated ingestion may affect the blood (changes in red blood of	cell
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	count), liver, urinary system, spleen, and may cause weight loss.
Sensitization:	No information available.
Mutagenic Effects:	May affect genetic material Mutations in microorganisms Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects:

Not considered carcinogenic.

Formula:	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Gallic Acid, monohydrate	5995-86-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available			
Reproductive Effects:	No information available			
Developmental Effects:	No information available			
Teratogenic Effects:	No information available			

Specific Target Organ Toxicity

STOT - single exposure	respiratory system.
STOT - repeated exposure	No information available.
Target Organs:	Blood. Kidneys. Liver. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Product code: G1003

Product name: GALLIC ACID, MONOHYDRATE, CRYSTAL, REAGENT, ACS Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Formula:	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Gallic Acid, monohydrate	5995-86-8	None	None	None	None
L					

14. TRANSPORT INFORMATION

DOT

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk:	- No information available No information available No information available No information available
IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	
	No information available
Subsidiary Risk:	No information available
Subsidiary Risk: Packing group	

ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
ΙΑΤΑ	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	IF exposed or concerned
Response	
Special Provisions	No information available

15. REGULATORY INFORMATION

International Inventories

Formula:	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Gallic Acid, monohydrate	5995-86-8	This material is exempt from TSCA 8(b) Inventory listing since it is a a hydrate. However, the anhydrous form (CAS no. 149-91-7) is listed on the TSCA 8(b) Inventory		Present	Not present	Not listed	Not listed	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

<u>Chemicals Known to the State of California to Cause Cancer:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Formula:	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Gallic Acid, monohydrate	5995-86-8	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Formula:	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Gallic Acid,	5995-86-8	None	None	None	None	None

monohydrate International Inte
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U.S. TSCA

Formula:		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Gallic Acid, monohydrate	5995-86-8	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification The WHMIS 2015 classification of this product has not been validated or reviewed yet. Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Formula:	CAS No		Canada (DSL)	(Canada (NDSL)
Gallic Acid, monohydrate	5995-86-8		Not Listed		Not Listed
Formula:		CAS No		CEPA S	Schedule I - Toxic Substances
Gallic Acid, monohydrate	5995-86-8			Not liste	ed
Formula:		CAS No			2010 Greenhouse Gases Subject datory Reporting
Gallic Acid, monohydrate 5995-86-8			Not liste	ed	

EU Classification

EU GHS - SV - CLP 1272/2008

Formula:	CAS No	EU GHS - SV - CLP (1272/2008)
Gallic Acid, monohydrate	5995-86-8	No information

EU - CLP (1272/2008)

R-phrase(s)

R36/37/38 - Irritating to eyes, respiratory system and skin

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S37 - Wear suitable gloves

Formula:	CAS No		Concentration Limits:	Safety Phrases
Gallic Acid, monohydrate	5995-86-8	No information	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Product code: G1003

Xi - Irritant



16. OTHER INFORMATION

Preparation Date:	04/29/2015
Revision date	11/28/2018
Prepared by:	Sonia Owen
Disclaimer:	All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet