

# spectrum

chemicals & laboratory products

A Division of Spectrum Chemical Mfg. Corp.

Dear Customer,

## This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI<sup>1</sup> format to the GHS<sup>2</sup> format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

### Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

### Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

- 1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond.  
ANSI labels: pictograms, if present, will be inside individual black boxes.
- 2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter.  
For GHS labels, the string of characters will end in "GHS:"

**Label in ANSI Format**

|   |  |   |
|---|--|---|
| <p><b>CAUTION!</b><br/>MAY BE HARMFUL IF SWALLOWED<br/>MAY CAUSE EYE AND SKIN IRRITATION<br/>MAY AFFECT BEHAVIOR AND<br/>METABOLISM</p> <p>Do not taste or swallow. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapor. Avoid prolonged or repeated exposure. Use with adequate ventilation. Wash thoroughly after handling.</p> <p><b>FIRST AID:</b> In case of contact, flush affected area with plenty of water for at least 15 minutes. Remove if worn. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If irritation persists, call a physician.</p> <p><b>KEEP FROM CHILDREN</b></p> | <p><b>SPECTRUM</b><br/>CHEMICALS &amp; LABORATORY PRODUCTS</p> <p><b>BE159      SIZ SY</b></p> <p><b>Benzyl Benzoate</b><br/>(Benzoic Acid Phenylmethyl Ester)</p> <p>U.S.P.<br/>CAS 120-51-4</p> <p><b>CAUTION:</b> For manufacturing, processing or repacking. Read and understand the label and Material Safety Data Sheet (MSDS) prior to use.</p> <p>For chemical emergency, call (800)424-9300</p> <p>www.SpectrumChemical.com</p> | <p><math>C_{11}H_{12}O_2</math>      F.W. 212.24</p> <p>Assay ..... 99.0-100.5%<br/>Specific Gravity @ 25°C ..... 1.116-1.120<br/>Congealing Temperature ..... Min: 18.0°C<br/>Refractive Index @ 20°C ..... 1.565-1.570<br/>Acidity ..... To pass test</p> <p><b>MAXIMUM LIMITS</b></p> <p>Aldehyde ..... 0.05%<br/>Residual Solvents ..... To pass test</p> <p><b>LIGHT SENSITIVE.</b> Keep tightly closed in light-resistant containers.</p> <p><b>FLUSHED WITH NITROGEN</b></p> |
|---|--|---|

Lot No. XQ###

SPECTRUM CHEMICAL MFG. CORP.      Gardena, CA 90248 • New Brunswick, NJ 08901

CORPORATE OFFICES  
14422 South San Pedro Street  
Gardena, California 90248  
PHONE 310.516.8000  
FAX 310.516.9843

**Label in GHS Format**

**WARNING!**

- May irritate or sensitize • May cause contact dermatitis by skin effects listed on a MSDS data
- Do not use or breathe • Wear goggles • Use handling
- **HAZARD AND IF INHALLED:** Cough • PAIN ON CONTACT or consult physician • If you feel unwell, consult your doctor

**KEEP FROM CHILDREN**

**SPECTRUM™**

BE159      SIZ SY

**Benzyl Benzoate**  
(Benzoic Acid Phenylmethyl Ester)

U.S.P.  
CAS 129-51-4

CAUTION: For manufacturing processing or shipping, read and understand the label and Safety Data Sheet (SDS) prior to use.

Chemical Emergency: (800)474-4088

www.SpectrumChemical.com

Lot No. XQ####

|                           |              |
|---------------------------|--------------|
| Flash                     | 99.0-100.5%  |
| Apparent Density @ 20°C   | 1.116-1.120  |
| Crystallizing Temperature | Min. 18.0°C  |
| Refractive Index @ 20°C   | 1.568-1.570  |
| Acidity                   | To pass test |
| <b>MAXIMUM LIMITS</b>     |              |
| Aldehyde                  | 0.05%        |
| Residual Solvents         | To pass test |

**LIGHT SENSITIVE:** Keep tightly closed in light-resistant containers.

FLUSHED WITH NITROGEN

Lot No. XQ####

<sup>1</sup> American National Standards Institute

<sup>2</sup> Globally Harmonized System for Hazard Communication

Sincerely,

Regulatory Affairs

## SAFETY DATA SHEET

Preparation Date: 04/29/2015

Revision Date: 04/29/2015

Revision Number: G1

**Product identifier**

**Product code:** G1004  
**Product Name:** GALLIC ACID, PURIFIED

**Other means of identification**

**Synonyms:** 3,4,5-trihydroxybenzoic acid, monohydrate  
Benzoic acid, 3,4,5-trihydroxy-, monohydrate  
**CAS #:** 5995-86-8  
**RTECS #** LW7525000 (RTECS no. for anhydrous form)  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

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

|  |             |
|--|-------------|
| 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



### 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

Specific treatment (see .? on this label)  
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 soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position 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

| Components                            | CAS-No.   | Weight % | Trade Secret |
|---------------------------------------|-----------|----------|--------------|
| Gallic Acid, monohydrate<br>5995-86-8 | 5995-86-8 | 100      | *            |

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

## 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Skin Contact:</b> | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician. |
| <b>Eye Contact:</b>  | Flush eye with water for 15 minutes. Get medical attention.   |
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.                                      |
| <b>Ingestion:</b>    | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.                                       |

### **Most important symptoms and effects, both acute and delayed**

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Causes serious eye irritation. Causes skin irritation. May cause irritation of respiratory tract. Coughing. Sneezing. May cause digestive (gastrointestinal) tract irritation. Ingestion may cause nausea, vomiting, and diarrhea. |
|-----------------|--|

### **Indication of any immediate medical attention and special treatment needed**

|                            |                       |
|----------------------------|-----------------------|
| <b>Notes to Physician:</b> | Treat symptomatically |
|----------------------------|-----------------------|

### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

## 5. FIRE-FIGHTING MEASURES

### **Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

### **Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon oxides

**Specific hazards:** May be combustible at high temperatures  
When heated to decomposition it emits acrid smoke and irritating fumes

### **Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment 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 containment 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 vapours/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**

| Components                           | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|--------------------------------------|------|-------|-------|------------|
| Gallic Acid, monohydrate - 5995-86-8 | None | None  | None  | None       |

##### **Canada**

| Components                           | Alberta | British Columbia | Ontario | Quebec |
|--------------------------------------|---------|------------------|---------|--------|
| Gallic Acid, monohydrate - 5995-86-8 | None    | None             | None    | None   |

##### **Australia and Mexico**

| Components | Australia | Mexico |
|------------|-----------|--------|
|------------|-----------|--------|

|                                       |      |      |
|---------------------------------------|------|------|
| Gallic Acid, monohydrate<br>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. Safety glasses with side-shields.
- Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- Respiratory protection:** Effective dust mask. 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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |   |
|--|--|---|
| <b>Physical state:</b><br>Solid.                                     | <b>Appearance:</b><br>Fine crystalline powder. Powder.   | <b>Color:</b><br>White. White to yellowish. Beige. Off-white. |
| <b>Odor:</b><br>Odorless.  | <b>Taste</b><br>No information available   | <b>Molecular/Formula weight:</b><br>188.14 g/mol              |
| <b>Formula:</b><br>C7H6O5-H2O  | <b>Flash point (°C):</b><br>No data available  | <b>Flashpoint (°C/°F):</b><br>No information available.       |
| <b>Flash Point Tested according to:</b><br>Not available             | <b>Lower Explosion Limit (%):</b><br>No information available  | <b>Upper Explosion Limit (%):</b><br>No information available |
| <b>Autoignition Temperature (°C/°F):</b><br>No information available | <b>pH:</b><br>No information available   | <b>Melting point/range(°C/°F):</b><br>250°C/ 482°F            |
| <b>Boiling point/range(°C/°F):</b><br>No information available       | <b>Decomposition temperature(°C/°F):</b><br>250-253 °C/482-487 °F  | <b>Bulk density:</b><br>No information available              |
| <b>Specific gravity:</b><br>No information available                 | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available  | <b>Density (g/cm3):</b><br>No information available           |
| <b>Evaporation rate:</b><br>No information available                 | <b>Vapor density:</b><br>No information available  | <b>VOC content (g/L):</b><br>No information available         |
| <b>Odor threshold (ppm):</b><br>No information available             | <b>Partition coefficient (n-octanol/water):</b><br>No information available  | <b>Viscosity:</b><br>No information available                 |
| <b>Miscibility:</b><br>No information available                      | <b>Solubility:</b><br>Partially soluble in cold water<br>Insoluble in Benzene<br>Insoluble in Chloroform<br>Insoluble in Petroleum ether |   |

## 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 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.. Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents. Strong bases. Acid chlorides. Acid anhydrides.

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

**Product code:** G1004

**Product name:** GALLIC ACID,  
PURIFIED

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## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Principal Routes of Exposure:

Ingestion. Inhalation.

### Acute Toxicity

#### Component Information

*Gallic Acid, monohydrate - 5995-86-8*

**LD50/oral/rat** = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = 5000 mg/kg Oral LD50 Rabbit (anhydrous)

#### Product Information

**LD50/oral/rat =**

**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse =**

**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**

**VALUE-Vapor** = No information available

**VALUE - Gas** = No information available

**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes eye irritation.

**Inhalation** May cause respiratory tract irritation. Symptoms may include coughing and sneezing.  
**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 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 cell 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

| Components               | ACGIH - Carcinogens | IARC       | NTP        | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|--------------------------|---------------------|------------|------------|------------------------|--|--|
| Gallic Acid, monohydrate | Not listed          | Not listed | Not listed | Not listed             | Not listed                                     | Not listed                                     |

**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** No information available  
**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:** No information available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**  
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

| Components               | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------------------|------------------------|------------------------|------------------------|------------------------|
| Gallic Acid, monohydrate | None                   | None                   | None                   | None                   |

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** None  
**ERG No:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** 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  
**Description:** No information available

### ADR

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / 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  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant:** No information available  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**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  
**Classification Code:** No information available  
**Description:** No information available

## 14. TRANSPORT INFORMATION

### ICAO

**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  
**Description:** No information available

### IATA

**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  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

| Components                      | U.S. TSCA   | KOREA KECL  | Philippines (PICCS) | Japan ENCS  | CHINA       | Australia (AICS) | EINECS-No.  |
|---------------------------------|---|-------------|---------------------|-------------|-------------|------------------|-------------|
| <i>Gallic Acid, monohydrate</i> | This material is exempt from TSCA 8(b) Inventory listing since it is a hydrate. However, the anhydrous form (CAS no. 149-91-7) is listed on the TSCA 8(b) Inventory | Not present | Present             | Not present | Not present | Not present      | Not present |

### U.S. Regulations

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

##### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

##### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components                      | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---------------------------------|------------|------------------------|----------------------------|-------------------------------|
| <i>Gallic Acid, monohydrate</i> | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

### CERCLA/SARA

| Components                      | 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 <i>de minimis</i> |
|---------------------------------|---|---|--|---------------------------------|---|
| <i>Gallic Acid, monohydrate</i> | None  | None  | None   | None                            | None                                      |

## U.S. TSCA

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

## Canada

### WHMIS hazard class:

D2B Toxic materials

### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

## Inventory

| Components               | Canada (DSL) | Canada (NDSL) |
|--------------------------|--------------|---------------|
| Gallic Acid, monohydrate | Not Listed   | Not Listed    |

| Components               | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
|--------------------------|------------------------------------|---|
| Gallic Acid, monohydrate | Not listed                         | Not listed  |

## EU Classification

### R-phrase(s)

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.

| Components               | Classification | Concentration Limits: | Safety Phrases |
|--------------------------|----------------|-----------------------|----------------|
| Gallic Acid, monohydrate |                | No information        |                |

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

### Indication of danger:

Xi - Irritant.

Xi



## 16. OTHER INFORMATION

## 16. OTHER INFORMATION



**Preparation Date:** 04/29/2015  
**Revision Date:** 04/29/2015  
**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**

# Material Safety Data Sheet

|  |  |               |   |             |   |            |   |  |
|--|--|---------------|---|-------------|---|------------|---|--|
| <p><b>NFPA</b></p>  | <p><b>HMIS</b></p> <table border="1" style="margin: auto;"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center; border: 1px solid black;">1</td> </tr> <tr> <td style="background-color: #FFC0CB;">Fire Hazard</td> <td style="text-align: center; border: 1px solid black;">1</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; border: 1px solid black;">0</td> </tr> </table> | Health Hazard | 1 | Fire Hazard | 1 | Reactivity | 0 | <p><b>Personal Protective Equipment</b></p>  <p style="text-align: center;">See Section 15.</p> |
| Health Hazard  | 1  |               |   |             |   |            |   |  |
| Fire Hazard  | 1  |               |   |             |   |            |   |  |
| Reactivity   | 0  |               |   |             |   |            |   |  |

| Section 1. Chemical Product and Company Identification   |   | Page Number: 1  |
|--|---|---|
| <b>Common Name/Trade Name</b>  | <b>Gallic acid monohydrate</b>  |   |
|  | <b>Catalog Number(s)</b>  | G1003, G1004  |
|  | <b>CAS#</b>   | 5995-86-8   |
| <b>Manufacturer</b>  | SPECTRUM LABORATORY PRODUCTS INC.<br>14422 S. SAN PEDRO STREET<br>GARDENA, CA 90248 |   |
|  | <b>RTECS</b>  | LW7525000 (RTECS no. for anhydrous form)  |
|  | <b>TSCA</b>   | TSCA 8(b) inventory: No products were found. This material is exempt from TSCA 8(b) Inventory listing since it is a hydrate. However, the anhydrous form (CAS no. 149-91-7) is listed on the TSCA 8(b) Inventory. |
| <b>Commercial Name(s)</b>  | Not available.  |   |
| <b>Synonym</b>   | 3,4,5-trihydroxybenzoic acid, monohydrate   |   |
| <b>Chemical Name</b>   | Benzoic acid, 3,4,5-trihydroxy-, monohydrate  |   |
| <b>Chemical Family</b>   | Not available.  |   |
| <b>Chemical Formula</b>  | C7-H6-O5.H2O  |   |
| <b>Supplier</b>  | SPECTRUM LABORATORY PRODUCTS INC.<br>14422 S. SAN PEDRO STREET<br>GARDENA, CA 90248 |   |
|  | <b>CI#</b>  | Not available.  |
| <p style="text-align: center; margin: 0;"><b><u>IN CASE OF EMERGENCY</u></b><br/> <b><u>CHEMTREC (24hr) 800-424-9300</u></b></p> <p style="text-align: center; margin: 0;">CALL (310) 516-8000</p> |   |   |

| Section 2. Composition and Information on Ingredients                                  |           |                          |                           |                           |             |
|--|-----------|--------------------------|---------------------------|---------------------------|-------------|
|  |           |                          | <i>Exposure Limits</i>    |                           |             |
| Name   | CAS #     | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) | CEIL (mg/m <sup>3</sup> ) | % by Weight |
| 1) Gallic acid monohydrate   | 5995-86-8 |                          |                           |                           | 100         |
| <b>Toxicological Data on Ingredients</b>   |           |                          |                           |                           |             |
| Gallic acid, anhydrous (CAS no. 149-91-7):<br>ORAL (LD50): Acute: 5000 mg/kg [Rabbit]. |           |                          |                           |                           |             |

| Section 3. Hazards Identification       |  |
|---|--|
| <b>Potential Acute Health Effects</b>   | Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.  |
| <b>Potential Chronic Health Effects</b> | <p><b>CARCINOGENIC EFFECTS:</b> Not available.</p> <p><b>MUTAGENIC EFFECTS:</b> Mutagenic for bacteria and/or yeast.</p> <p><b>TERATOGENIC EFFECTS:</b> Not available.</p> <p><b>DEVELOPMENTAL TOXICITY:</b> Not available.</p> <p>The substance may be toxic to blood, kidneys, liver, spleen, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.</p> |

**Section 4. First Aid Measures**

|                             |  |
|-----------------------------|--|
| <b>Eye Contact</b>          | 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 if irritation occurs.                                  |
| <b>Skin Contact</b>         | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.  |
| <b>Serious Skin Contact</b> | Not available.   |
| <b>Inhalation</b>           | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |
| <b>Serious Inhalation</b>   | Not available.   |
| <b>Ingestion</b>            | 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. |
| <b>Serious Ingestion</b>    | Not available.   |

**Section 5. Fire and Explosion Data**

|  |   |
|--|---|
| <b>Flammability of the Product</b>                         | May be combustible at high temperature.   |
| <b>Auto-Ignition Temperature</b>                           | Not available.  |
| <b>Flash Points</b>  | Not available.  |
| <b>Flammable Limits</b>                                    | Not available.  |
| <b>Products of Combustion</b>                              | These products are carbon oxides (CO, CO <sub>2</sub> ).  |
| <b>Fire Hazards in Presence of Various Substances</b>      | Slightly flammable to flammable in presence of heat.  |
| <b>Explosion Hazards in Presence of Various Substances</b> | Risks of explosion of the product in presence of mechanical impact: Not available.<br>Risks of explosion of the product in presence of static discharge: Not available. |
| <b>Fire Fighting Media and Instructions</b>                | SMALL FIRE: Use DRY chemical powder.<br>LARGE FIRE: Use water spray, fog or foam. Do not use water jet.   |
| <b>Special Remarks on Fire Hazards</b>                     | When heated to decomposition it emits acrid smoke and irritating fumes.   |
| <b>Special Remarks on Explosion Hazards</b>                | Not available.  |

**Section 6. Accidental Release Measures**

|                    |  |
|--------------------|--|
| <b>Small Spill</b> | 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 requirements. |
| <b>Large Spill</b> | 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**

|                    |   |
|--------------------|---|
| <b>Precautions</b> | 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. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, alkalis. |
| <b>Storage</b>     | Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic Sensitive to light. Store in light-resistant containers.   |



**Section 8. Exposure Controls/Personal Protection**

|   |   |
|---|---|
| <b>Engineering Controls</b>                         | 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. |
| <b>Personal Protection</b>                          | Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.   |
| <b>Personal Protection in Case of a Large Spill</b> | 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.                    |
| <b>Exposure Limits</b>                              | Not available.  |

**Section 9. Physical and Chemical Properties**

|                                      |   |              |                                     |
|--------------------------------------|---|--------------|-------------------------------------|
| <b>Physical state and appearance</b> | Solid. (Crystals solid. Powdered solid.)            | <b>Odor</b>  | Odorless.                           |
| <b>Molecular Weight</b>              | 188.14 g/mole                                       | <b>Taste</b> | Not available.                      |
| <b>pH (1% soln/water)</b>            | Not available.                                      | <b>Color</b> | White. Pale fawn. Off-white. Beige. |
| <b>Boiling Point</b>                 | Not available.                                      |              |                                     |
| <b>Melting Point</b>                 | Decomposition temperature: 251°C (483.8°F) - 252 C. |              |                                     |
| <b>Critical Temperature</b>          | Not available.                                      |              |                                     |
| <b>Specific Gravity</b>              | Not available.                                      |              |                                     |
| <b>Vapor Pressure</b>                | Not applicable.                                     |              |                                     |
| <b>Vapor Density</b>                 | Not available.                                      |              |                                     |
| <b>Volatility</b>                    | Not available.                                      |              |                                     |
| <b>Odor Threshold</b>                | Not available.                                      |              |                                     |
| <b>Water/Oil Dist. Coeff.</b>        | Not available.                                      |              |                                     |
| <b>Ionicity (in Water)</b>           | Not available.                                      |              |                                     |
| <b>Dispersion Properties</b>         | See solubility in water.                            |              |                                     |
| <b>Solubility</b>                    | Partially soluble in cold water.                    |              |                                     |

**Section 10. Stability and Reactivity Data**

|  |  |
|--|--|
| <b>Stability</b>                               | The product is stable.   |
| <b>Instability Temperature</b>                 | Not available.   |
| <b>Conditions of Instability</b>               | Excess heat, incompatible materials, moisture  |
| <b>Incompatibility with various substances</b> | Reactive with oxidizing agents, alkalis.   |
| <b>Corrosivity</b>                             | Non-corrosive in presence of glass.  |
| <b>Special Remarks on Reactivity</b>           | Incompatible with acid chlorides, acid anhydrides, ferric salts, chlorates, permanganates, ammonia, Lead acetate, alkali hydroxides, carbonates, silver salts, spirit nitrous ether. Hygroscopic; keep container tightly closed. Sensitive to light. Protect from light and moisture |
| <b>Special Remarks on Corrosivity</b>          | Not available.   |
| <b>Polymerization</b>                          | Will not occur.  |

**Section 11. Toxicological Information**

|   |  |
|---|--|
| <b>Routes of Entry</b>                                  | Inhalation. Ingestion.   |
| <b>Toxicity to Animals</b>                              | Gallic acid, anhydrous (CAS no. 149-91-7):<br>Acute oral toxicity (LD50): 5000 mg/kg [Rabbit].   |
| <b>Chronic Effects on Humans</b>                        | <b>MUTAGENIC EFFECTS:</b> Mutagenic for bacteria and/or yeast.<br>May cause damage to the following organs: blood, kidneys, liver, spleen, upper respiratory tract.  |
| <b>Other Toxic Effects on Humans</b>                    | Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.   |
| <b>Special Remarks on Toxicity to Animals</b>           | Not available.   |
| <b>Special Remarks on Chronic Effects on Humans</b>     | May affect genetic material (mutagenic)  |
| <b>Special Remarks on other Toxic Effects on Humans</b> | Acute Potential Health Effects:<br>Skin: May cause skin irritation.<br>Eyes: May cause eye irritation.<br>Inhalation: May cause respiratory tract irritation with coughing and sneezing.<br>Ingestion: May cause digestive (gastrointestinal) tract irritation with nausea, vomiting, diarrhea. May affect the liver, urinary system, respiratory system (chronic pulmonary edema).<br>Chronic Potential Health Effects:<br>Ingestion: Prolonged or repeated ingestion may affect the blood (changes in red blood cell count), liver, urinary system, spleen, and may cause weight loss. |

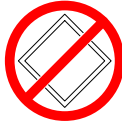
**Section 12. Ecological Information**

|  |   |
|--|---|
| <b>Ecotoxicity</b>                                       | Not available.  |
| <b>BOD5 and COD</b>                                      | Not available.  |
| <b>Products of Biodegradation</b>                        | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| <b>Toxicity of the Products of Biodegradation</b>        | The product itself and its products of degradation are not toxic.   |
| <b>Special Remarks on the Products of Biodegradation</b> | Not available.  |

**Section 13. Disposal Considerations**

|                       |  |
|-----------------------|--|
| <b>Waste Disposal</b> | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
|-----------------------|--|

**Section 14. Transport Information**

|   |   |
|---|---|
| <b>DOT Classification</b>               | Not a DOT controlled material (United States).                                      |
| <b>Identification</b>                   | Not applicable.   |
| <b>Special Provisions for Transport</b> | Not applicable.   |
| <b>DOT (Pictograms)</b>                 |  |

## Section 15. Other Regulatory Information and Pictograms

## Federal and State Regulations

No products were found.

## California Proposition 65 Warnings

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.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

## Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
 EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances.  
 Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non-Domestic Substance List (NDSL).  
 China: Not listed on National Inventory.  
 Japan: Not listed on National Inventory (ENCS).  
 Korea: Not listed on National Inventory (KECI).  
 Philippines: Listed on National Inventory (PICCS).  
 Australia: Not listed on AICS.

## Other Classifications

**WHMIS (Canada)** Not controlled under WHMIS (Canada).

**DSCL (EEC)** Not available Not applicable.

## HMIS (U.S.A.)

|                     |   |
|---------------------|---|
| Health Hazard       | 1 |
| Fire Hazard         | 1 |
| Reactivity          | 0 |
| Personal Protection | E |

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

Health



Flammability

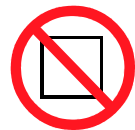
Reactivity

Specific hazard

## WHMIS (Canada) (Pictograms)



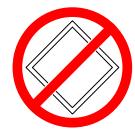
## DSCL (Europe) (Pictograms)



## TDG (Canada) (Pictograms)



## ADR (Europe) (Pictograms)



## Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Safety glasses.

**Section 16. Other Information****MSDS Code** G3030**References** Not available.**Other Special Considerations** Major Uses: In the manufacture of Gallic acid esters, Pyrogallol; in inks; as a photographic developer; in tanning; in dyeing; in testing free mineral acids

Validated by Sonia Owen on 7/8/2010.

Verified by Sonia Owen.

Printed 7/8/2010.

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.*