Safety Data Sheet

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Phloroglucinol TS, 2% (w/v) Alcoholic

Product Number: 5775
Other Identifying Product Numbers: 5775-16, 5775-32

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company
Address: 448 West Fork Drive, Arlington, TX 76012, USA
Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300
CHEMTREC (International) 1+ 703-527-3887

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
<th>Hazard Statement</th>
<th>Precautionary Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Damage / Irritation</td>
<td>Category 2A</td>
<td>H319</td>
<td>P264, P280, P305+P351+P338, P337+P313</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Category 1</td>
<td>H340</td>
<td>P201, P202, P280, P308+P313, P405, P501</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 1</td>
<td>H360</td>
<td>P201, P202, P280, P308+P313, P405, P501</td>
</tr>
<tr>
<td>Specific Target Organs/Systemic Toxicity Following Single Exposure</td>
<td>Category 1</td>
<td>H370</td>
<td>P260, P264, P270, P307+P311, P321, P405, P501</td>
</tr>
<tr>
<td>Specific Target Organs/Systemic Toxicity Following Repeated Exposure</td>
<td>Category 1</td>
<td>H372</td>
<td>P260, P264, P270, P314, P501</td>
</tr>
</tbody>
</table>
2.2. GHS Label Elements

Pictograms:

![Pictogram 1](image1)
![Pictogram 2](image2)
![Pictogram 3](image3)

Signal Word: **Danger**

Hazard Statements:

<table>
<thead>
<tr>
<th>Hazard Number</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H340</td>
<td>May cause genetic defects.</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child.</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs.</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>
## Precautionary Statements:

<table>
<thead>
<tr>
<th>Precautionary Number</th>
<th>Precautionary Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>P201</td>
<td>Obtain special instructions before use.</td>
</tr>
<tr>
<td>P202</td>
<td>Do not handle until all safety precautions have been read and understood.</td>
</tr>
<tr>
<td>P210</td>
<td>Keep away from heat, sparks and open flame. No smoking.</td>
</tr>
<tr>
<td>P233</td>
<td>Keep container tightly closed.</td>
</tr>
<tr>
<td>P240</td>
<td>Ground container and receiving equipment.</td>
</tr>
<tr>
<td>P241</td>
<td>Use explosion-proof equipment.</td>
</tr>
<tr>
<td>P242</td>
<td>Use only non-sparking tools.</td>
</tr>
<tr>
<td>P243</td>
<td>Take precautionary measures against static discharge.</td>
</tr>
<tr>
<td>P260</td>
<td>Do not breathe dust, fumes or mist.</td>
</tr>
<tr>
<td>P264</td>
<td>Wash arms, hands and face thoroughly after handling.</td>
</tr>
<tr>
<td>P270</td>
<td>Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves and eye protection.</td>
</tr>
<tr>
<td>P303+P361+P353</td>
<td>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</td>
</tr>
<tr>
<td>P305+P351+P338</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, Continue rinsing.</td>
</tr>
<tr>
<td>P307+P311</td>
<td>IF exposed: Call a POISON CENTER or physician.</td>
</tr>
<tr>
<td>P308+P313</td>
<td>IF exposed or concerned: Get medical attention.</td>
</tr>
<tr>
<td>P314</td>
<td>Get medical attention if you feel unwell.</td>
</tr>
<tr>
<td>P321</td>
<td>Specific treatment (Wash areas of contact with water).</td>
</tr>
<tr>
<td>P337+P313</td>
<td>If eye irritation persists: Get medical attention.</td>
</tr>
<tr>
<td>P405</td>
<td>Store locked up.</td>
</tr>
<tr>
<td>P501</td>
<td>Dispose of contents in accordance with local, state, federal and international regulations.</td>
</tr>
</tbody>
</table>

### 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.
Safety Data Sheet

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Formula</th>
<th>Molecular Weight</th>
<th>CAS Number</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>CH₃CH₂OH</td>
<td>46.06 g/mol</td>
<td>64-17-5</td>
<td>88.22%</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>CH₃CHOHCH₃</td>
<td>60.09 g/mol</td>
<td>67-63-0</td>
<td>4.88%</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>CH₃OH</td>
<td>32.04 g/mol</td>
<td>67-56-1</td>
<td>4.41%</td>
</tr>
<tr>
<td>Phloroglucinol Dihydrate</td>
<td>C₆H₁₀O₅</td>
<td>Data not available</td>
<td>6099-90-7</td>
<td>2.50%</td>
</tr>
</tbody>
</table>

SECTION 4: First-Aid Measures

4.1. General First Aid Information

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Flammable liquid. Primarily toxic by ingestion. If ingested, give large quantity of water and induce vomiting. Call a physician. Contact may cause dryness and cracking of the skin. May cause irritation to the eyes. Wash areas of contact with plenty of water. May cause irritation of the respiratory system. Reagent Alcohol consists of 90% Ethanol, 5% Methanol and 5% Isopropanol. The hazards listed on this SDS are primarily due to the Ethanol. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infecions and dermatitis. Dermal absorption causes many of the symptoms of inhalation.

4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use dry chemical, alcohol foam, or carbon dioxide for extinguishing the surrounding fire. Water may be ineffective in extinguishing flames but should I used to cool adjacent containers.

5.2. Specific Hazards Arising from the Substance or Mixture

Highly flammable liquid and vapor. Vapors can flow along surfaces to distant ignition source and flashback. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

5.3. Special Protective Equipment for Firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials
Do not flush to sewer. Absorb with inert material (vermiculite, dry sand, earth) and place in a chemical waste container for proper disposal. Ventilate area of spill. Have extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking equipment.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions
Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues.

SECTION 8: Exposure Controls / Personal Protection

8.1. Control Parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Limit Type</th>
<th>Country</th>
<th>Exposure Limit</th>
<th>Information Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (64-17-5)</td>
<td>TWA</td>
<td>USA</td>
<td>1000 ppm TWA 1900 mg/m³ TWA</td>
<td>U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)</td>
</tr>
<tr>
<td>Ethyl Alcohol (64-17-5)</td>
<td>TLV-STEL</td>
<td>USA</td>
<td>1000 ppm STEL</td>
<td>ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)</td>
</tr>
<tr>
<td>Isopropyl Alcohol (67-63-0)</td>
<td>TWA</td>
<td>USA</td>
<td>400 ppm TWA 980 mg/m³ TWA</td>
<td>U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)</td>
</tr>
<tr>
<td>Isopropyl Alcohol (67-63-0)</td>
<td>TLV-STEL</td>
<td>USA</td>
<td>400 ppm STEL</td>
<td>ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)</td>
</tr>
<tr>
<td>Isopropyl Alcohol (67-63-0)</td>
<td>TLV-TWA</td>
<td>USA</td>
<td>200 ppm STEL</td>
<td>ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)</td>
</tr>
<tr>
<td>Methyl Alcohol (67-56-1)</td>
<td>TWA</td>
<td>USA</td>
<td>200 ppm TWA 260 mg/m³ TWA</td>
<td>U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)</td>
</tr>
<tr>
<td>Methyl Alcohol (67-56-1)</td>
<td>TLV-STEL</td>
<td>USA</td>
<td>250 ppm STEL</td>
<td>ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)</td>
</tr>
<tr>
<td>Methyl Alcohol (67-56-1)</td>
<td>TLV-TWA</td>
<td>USA</td>
<td>200 ppm STEL</td>
<td>ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)</td>
</tr>
</tbody>
</table>

8.2. Exposure Controls

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

**Respiratory Protection:** Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn.
8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn. Chemical resistant gloves. Safety glasses or goggles.

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Colorless to slightly yellow liquid
Physical State: Liquid
Odor: Data not available.
Odor Threshold: Data not available.
pH: Data not available.
Melting/Freezing Point: Data not available.
Initial Boiling Point /Range: Approximately 77°C - Approximately 77°C
Flash Point: Approximately 15.5°C
Evaporation Rate: Data not available.
Flammability: Data not available.
Flammability/Explosive Limits: Data not available.
Vapor Pressure: Data not available.
Vapor Density: Data not available.
Relative Density: 0.8
Solubility: Data not available.
Partition Coefficient (n-Octanol/Water): Data not available.
Auto-Ignition Temperature: Data not available.
Decomposition Temperature: Data not available.
Viscosity: Data not available.
Explosive Properties: Data not available.
Oxidizing Properties: Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage. Sublimes with decomposition. Discolors in light.
10.2. Possibility of Hazardous Reactions
Data not available.

10.3. Conditions to Avoid and Incompatible Materials
Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Oxidizers, platinum, Sodium, Potassium Dioxide, Bromine Pentfluoride, Acetyl Bromide, Acetyl Chloride, heat, sparks, open flame.

10.4. Hazardous Decomposition Products
Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:
Not applicable.

Acute Toxicity - Dermal Exposure:
Not applicable.

Acute Toxicity - Inhalation Exposure:
Not applicable.

Acute Toxicity - Other Information:
LD50, Oral, Rat: (Methanol) 5628 mg/kg, (Phloroglucinol, anhydrous) 4000 mg/kg, details of toxic effects not reported other than lethal dose value; (Ethanol) 7060 mg/kg, respiration changes noted.

Skin Corrosion and Irritation:
Not applicable.

Serious Eye Damage and Irritation:
Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. 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 attention.

Respiratory Sensitization:
Not applicable.

Skin Sensitization:
Not applicable.

Germ Cell Mutagenicity:
May cause genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Carcinogenicity:
Not applicable.
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Reproductive Toxicity:
May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Single Exposure:
Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Repeated Exposure:
Causes damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

Aspiration Hazard:
Not applicable.

Additional Toxicology Information:
Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity
Not applicable.

12.2. Persistence and Degradability
Data not available.

12.3. Bioaccumulative Potential
Data not available.

12.4. Mobility in Soil
Data not available.

12.5. Other Adverse Ecological Effects
Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods
Data not available.
SECTION 14: Transportation Information

14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

- Sizes: 1 L, 500 mL
- UN Number: UN1987
- Proper Shipping Name: Alcohols, n.o.s., (Ethanol and Methanol)
- Hazard Class: 3
- Packing Group: II
- Hazard Placard Labels:

14.2. Transportation by Air - International Air Transport Association (IATA)

- Sizes: 1 L, 500 mL
- UN Number: UN1987
- Proper Shipping Name: Alcohols, n.o.s., (Ethanol and Methanol)
- Hazard Class: 3
- Packing Group: II
- Hazard Placard Labels:

SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.
15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances
Not listed.

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals
Methyl Alcohol (CAS # 67-56-1): 5000 lb final RQ; 2270 kg final RQ

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)
Methyl Alcohol (CAS # 67-56-1): 1.0 % de minimis concentration
Isopropyl Alcohol (CAS # 67-63-0): 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

15.5. Massachusetts Right-to-Know Substance List
Ethyl Alcohol (CAS # 64-17-5): Teratogen
Methyl Alcohol (CAS # 67-56-1): Present
Isopropyl Alcohol (CAS # 67-63-0): Present

15.6. Pennsylvania Right-to-Know Hazardous Substances
Ethyl Alcohol (CAS # 64-17-5): Present
Methyl Alcohol (CAS # 67-56-1): Environmental hazard
Methyl Alcohol (CAS # 67-56-1): Present
Isopropyl Alcohol (CAS # 67-63-0): Environmental hazard
Isopropyl Alcohol (CAS # 67-63-0): Present
Isopropyl Alcohol (CAS # 67-63-0): Special hazardous substance

15.7. New Jersey Worker and Community Right-to-Know Components
Ethyl Alcohol (CAS # 64-17-5): carcinogen; flammable - third degree; mutagen; teratogen
Ethyl Alcohol (CAS # 64-17-5): sn 0844
Methyl Alcohol (CAS # 67-56-1): flammable - third degree; teratogen
Methyl Alcohol (CAS # 67-56-1): sn 1222
Methyl Alcohol (CAS # 67-56-1): SN 1222 500 lb TPQ
Isopropyl Alcohol (CAS # 67-63-0): flammable - third degree
Isopropyl Alcohol (CAS # 67-63-0): sn 1076
Isopropyl Alcohol (CAS # 67-63-0): SN 1076 500 lb TPQ (manufacturing - strong acid process only)

15.8. California Proposition 65
Ethyl Alcohol (CAS # 64-17-5): carcinogen, 4/29/2011 (in alcoholic beverages)
Ethyl Alcohol (CAS # 64-17-5): carcinogen, 7/1/1988 (when associated with alcohol abuse)
Ethyl Alcohol (CAS # 64-17-5): developmental toxicity, 10/1/1987 (in alcoholic beverages)
Methyl Alcohol (CAS # 67-56-1): developmental toxicity, 3/16/2012
Safety Data Sheet

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Phloroglucinol Dihydrate (CAS # 6099-90-7): Present (DSL)
Ethyl Alcohol (CAS # 64-17-5): Present (DSL)
Ethyl Alcohol (CAS # 64-17-5): Present (NDSL)
Methyl Alcohol (CAS # 67-56-1): Present (DSL)
Methyl Alcohol (CAS # 67-56-1): Present (NDSL)
Isopropyl Alcohol (CAS # 67-63-0): Present (DSL)
Isopropyl Alcohol (CAS # 67-63-0): Present (NDSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

Phloroglucinol Dihydrate (CAS # 6099-90-7): Present
Ethyl Alcohol (CAS # 64-17-5): Present
Methyl Alcohol (CAS # 67-56-1): Present
Isopropyl Alcohol (CAS # 67-63-0): Present

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Highly flammable liquid and vapor. Causes serious eye irritation. May cause genetic defects. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water). If eye irritation persists: Get medical attention. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.
16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 1
Flammability: 3
Reactivity: 0
Special Hazard:
16.4. Document Revision

Last Revision Date: 11/17/2015

**DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.