SAFETY DATA SHEET (SDS)

Section 1 - Product and Company Identification

Product Name: Tannic Acid    Product Code: S-3000-TA
SNP Inc.
1301 S. Briggs Ave.
Suite 110
Durham, NC 27703

Phone: 919-598-0400
Fax: 919-598-4674
Web: www.snpinc.com

For Chemical Emergency, Spill, Leak, Exposure or Accident, call CHEMTREC
day or night at the following number:
1-800-424-9300

Product Use: Industrial Use Only
Not recommended for:

Section 2 - Hazards Identification

GHS Ratings:

GHS Hazards

GHS Precautions

Signal Word:
There are no GHS ratings that apply to this product at this time.

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tannic Acid</td>
<td>1401-55-4</td>
<td>90.00% - 100.00%</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

Inhalation: Remove person to fresh air and keep warm and at rest.
Eye Contact: Rinse immediately with plenty of water and seek medical attention.
Skin Contact: Wash with soap and water.
Ingestion: Rinse mouth with plenty of water. Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in Section 2 and/or Section 11

Indication of immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately. No special treatments required.

Section 5 - Fire Fighting Measures

Flash Point: 198 C (388 F)
Extinguishing Media: Use water or carbon dioxide.

Unusual Fire/Explosion Hazards: Do not inhale explosion and combustion gases.

Hazardous Combustion Products: None

Fire Fighting: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire Equipment: Fire fighters should be equipped with self-contained breathing apparatus and turnout gear.

### Section 6 - Accidental Release Measures

**Spill/Leak Procedure:** Scoop or sweep the material. Do not wash with water as material will become slippery. Do not allow material to enter the soil/subsoil. If material does become wet, do allow to enter into surface water or drains. Use absorbing material or sand and retain washing water and dispose of it.

### Section 7 - Handling and Storage

**Handling Precautions:** Avoid contact with skin and eyes, inhalation of vapours and mists . Do not eat or drink while working with this material.

**Storage Requirements:** Store the material in a dry and adequately ventilated area. Keep the container lid tightly closed to ensure quality.

### Section 8 - Exposure Controls and Personal Protective Equipment

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tannic Acid 1401-55-4</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Use in a well-ventilated area.

**Ventilation:** Use sufficient local exhaust to remove airborne dust.

**PPE:**
- Eye Protection: yes
- Respiratory: not needed under normal conditions
- Gloves/Apron: not needed under normal conditions

### Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown Powder</td>
</tr>
<tr>
<td>Grams VOC less water</td>
<td>No Data</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Data</td>
</tr>
<tr>
<td>pH</td>
<td>3.2-3.8</td>
</tr>
<tr>
<td>Viscosity (cPs)</td>
<td>No Data</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No Data</td>
</tr>
<tr>
<td>Boiling range</td>
<td>No Data</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No Data</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>No Data</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt;500 C</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No Data</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No Data</td>
</tr>
<tr>
<td>Density</td>
<td>No Data</td>
</tr>
<tr>
<td>Melting point</td>
<td>No Data</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Flash point</td>
<td>No Data</td>
</tr>
<tr>
<td>Flammability</td>
<td>No Data</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>No Data</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Data</td>
</tr>
</tbody>
</table>
Section 10 - Stability and Reactivity

Stability and Reactivity:
   STABLE

Materials to Avoid: This product is degraded by contact with iron, heavy metal salts, alkaloids, gelatine, albumins, starches, oxidizing materials, and lime water.

Hazardous Decomposition: None
   Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity
   Oral Toxicity LD50: 2,260mg/kg

Routes of Entry
   Inhalation: Yes    Skin: Yes              Ingestion: Yes

Carcinogenicity
   NTP: No           IARC: No               OSHA: No

Acute Toxicity     Germ cell mutagenicity     Sensitization
   No data available No data available     No data available

LD50 dermal and oral
   > 2000 mg/Kg (oral rat)

Acute effects of overexposure: None known
   Chronic effects of overexposure: None known

Section 12 - Ecological Information

Adopt sound working practices, so that the product is not released into the environment.

Component Ecotoxicity

Section 13 - Disposal Considerations

Treat as a non-hazardous material. No special disposal methods are suggested. It is the user's responsibility to comply with all local, state, and federal laws, rules, standards, and regulations.

Section 14 - Transport Information

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

   This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:
      - None

EPCRA:
      - None
- None

This product contains the following chemicals subject to the reporting requirements of SARA Title III, section 313 and 40 CFR 372:
- None

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>Toxic Substances Control Act</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Section 16 - Other Information**

**Hazardous Material Information System (HMIS)**

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>E</td>
</tr>
</tbody>
</table>

HMIS & NFPA Hazard Rating

Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

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Date revised: 2016-08-17
Date Prepared: 10/30/2018
Reviewer Revision 1