1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: meta-Topolin Solution (1 mg/mL)
PRODUCT NUMBER: T7885
COMPANY INFO: PhytoTechnology Laboratories®
PO Box 12205, Shawnee, KS 66282-2205
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:
Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 6-(3-Hydroxybenzylamino)purine
CAS No.: 75737-38-1
Formula: C_{12}H_{10}N_{5}OH
Molecular Weight: 241.25 g/mol

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>meta-Topolin</td>
<td>75737-38-1</td>
<td>0.1 %</td>
<td>No exposure limits established by OSHA or ACGIH</td>
</tr>
<tr>
<td>Potassium Hydroxide 1.0 N</td>
<td>1310-58-3</td>
<td>1-5 %</td>
<td>ACGIH TLV: 2 mg/m³</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>94-99 %</td>
<td>No exposure limits established by OSHA or ACGIH</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

<table>
<thead>
<tr>
<th>Route of Entry</th>
<th>Symptoms</th>
<th>First Aid Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May cause irritation if swallowed</td>
<td>If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause irritation to respiratory tract</td>
<td>Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.</td>
</tr>
</tbody>
</table>
Eye Contact
Direct contact may cause irritation. May cause redness, tearing, or blurred vision.
Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation persists.**

Skin Contact
Irritating. May cause reddening, itching or inflammation.
Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation persists.**

Most Important Symptoms or Effects, Both Acute and Delayed:
See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:
No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon oxides, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid aerosols. Avoid incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: -20-0 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA’s Permissible Exposure Limits (PELs): No data available
Threshold Limit Values (TLVs): No data available
Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid
pH: No data available
Solubility: Miscible with water
Melting Point: No data available
Vapor Density: No data available
Vapor Pressure: No data available
Odor: May have slight odor
Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available
Evaporation Rate: No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under normal conditions of use
Possibility of Hazard Reactions: Will not occur
Conditions to Avoid: Excessive heat
Incompatibles Materials: Strong oxidizing agents
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicity: 
  \( \text{LD}_{50} \) (Oral-Rat)(mg/Kg): No data available
  \( \text{LD}_{50} \) (Oral-Mouse)(mg/Kg): No data available
  \( \text{LD}_{50} \) (Dermal-Rabbit)(mg/Kg): No data available
  NTP: No
  IARC: No
  Z List: No
  OSHA Reg: No

Reproductive Toxicity: No data available
Symptoms Associated with Overexposure: Irritation, sneezing, gastrointestinal upset
Specific Target Organ Toxicity:

- Single Exposure: No data available
- Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions Aggravated By Exposure: None identified

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS NO: Not listed

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.):
- Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
- Hazard Class: N/A
- UN/NA: N/A
- Labels: N/A

International:
- IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
- Hazard Class: N/A
- UN/NA: N/A
- Labels: N/A

- IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
- Hazard Class: N/A
- UN/NA: N/A
- Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:
- Section 302 (EHS) Ingredients: No
- Section 313 Ingredients: No
- Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: No SARA Hazards
Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.
California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Rating:</th>
<th>Health Hazard</th>
<th>Chronic Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NFPA Rating:</th>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
<th>Special Hazard</th>
</tr>
</thead>
<tbody>
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PhytoTechnology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 14 May 15