## Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

<table>
<thead>
<tr>
<th>1.1 Product Code:</th>
<th>11803</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>5-hydroxy DMT (hydrochloride)</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>3-[2-(dimethylamino)ethyl]-1H-indol-5-ol, monohydrochloride; Bufotenine; 5-hydroxy-N,N-Dimethyltryptamine; 5-OH DMT;</td>
</tr>
</tbody>
</table>

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** For research use only, not for human or veterinary use.

### 1.3 Details of the Supplier of the Safety Data Sheet:

- **Company Name:** Cayman Chemical Company
- **Address:** 1180 E. Ellsworth Rd., Ann Arbor, MI 48108
- **Web site address:** www.caymanchem.com
- **Information:** Cayman Chemical Company +1 (734)971-3335

### 1.4 Emergency telephone number:

- **Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300
- **Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887

## Section 2. Hazards Identification

### 2.1 Classification of the Substance or Mixture:

- Flammable Liquids, Category 2
- Acute Toxicity: Oral, Category 3
- Acute Toxicity: Skin, Category 3
- Acute Toxicity: Inhalation, Category 3
- Specific Target Organ Toxicity (single exposure), Category 1

### 2.2 Label Elements:

- **GHS Signal Word:** Danger
- **GHS Hazard Phrases:**
  - H225: Highly flammable liquid and vapor
  - H301: Toxic if swallowed.
  - H311: Toxic in contact with skin.
  - H331: Toxic if inhaled.
  - H370: Causes damage to organs (eyes)
- **GHS Precaution Phrases:**
  - P210: Keep away from (heat/sparks/open flames/hot surfaces). - No smoking.
  - P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.
  - P264: Wash hands thoroughly after handling.
  - P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- **GHS Response Phrases:**
  - P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P302+352: IF ON SKIN: Wash with plenty of soap and water.
  - P312: Call a POISON CENTER or doctor/physician if you feel unwell.
5-hydroxy DMT (hydrochloride)

SAFETY DATA SHEET

GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health

Effects and Symptoms:
- Causes damage to organs (eyes).
- Material may be irritating to the mucous membranes and upper respiratory tract.
- May be fatal or cause blindness if swallowed.
- May cause eye, skin, or respiratory system irritation.
- Toxic if swallowed, inhaled, or absorbed through the skin.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

### Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS # / RTECS #</th>
<th>Hazardous Components (Chemical Name)/ REACH Registration No.</th>
<th>Concentration</th>
<th>EC No./ EC Index No.</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>55206-22-9 NA</td>
<td>5-hydroxy DMT (hydrochloride) 1.0 %</td>
<td>NA</td>
<td>200-659-6 603-001-00-X</td>
<td>Acute Tox.(O) 4: H302</td>
</tr>
</tbody>
</table>

### Section 4. First Aid Measures

4.1 Description of First Aid Measures:

**In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

**In Case of Skin Contact:** Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**In Case of Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

**In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Important Symptoms and Effects, Both Acute and Delayed:

- Overexposure may cause: confusion, dermatitis, headache, drowsiness, dizziness, gastrointestinal disturbance, optic nerve damage (blindness), nausea, unconsciousness, vomiting, visual disturbance, weakness.

- May cause convulsions.

- Once methanol is absorbed into the body, it is very slowly eliminated.
Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

5.2 Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards:
- Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.
- Container explosion may occur under fire conditions.
- Emits toxic fumes under fire conditions.
- Sensitive to static discharge.
- Vapors can travel to a source of ignition and flash back.
- No data available.

Flash Pt: 11.00 C Method Used: Closed Cup

Explosive Limits:
- LEL: 6.0% at 25.0 C
- UEL: 36.0% at 25.0 C

Autoignition Pt: 385.00 C

5.3 Fire Fighting Instructions:
- As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
- Note: Flammable as diluted in methanol.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures:
- Avoid breathing vapors and provide adequate ventilation.
- As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions:
- Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning:
- Contain spill and collect, as appropriate.
- Transfer to a chemical waste container for disposal in accordance with local regulations. Up:

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling:
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.

7.2 Precautions To Be Taken in Storing:
- Keep away from heat, sparks, and flame.
- Keep container tightly closed.
- Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Jurisdiction</th>
<th>Recommended Exposure Limits</th>
<th>Notations</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>ACGIH TLV</td>
<td>TLV: 200 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 250 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Europe</td>
<td>TWA: 260 mg/m3 (200 ppm)</td>
<td>Skin Absorption</td>
</tr>
<tr>
<td></td>
<td></td>
<td>France VL</td>
<td>TWA: 260 mg/m3 (200 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 1300 mg/m3 (1000 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PELs</td>
<td>PEL: 200 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Britain EH40</td>
<td>TWA: 266 mg/m3 (200 ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 333 mg/m3 (250 ppm)</td>
<td>Skin Absorption</td>
</tr>
</tbody>
</table>
8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:
   - Eye Protection: Safety glasses
   - Protective Gloves: Compatible chemical-resistant gloves
   - Other Protective Clothing: Lab coat
   - Respiratory Equipment: NIOSH approved respirator, as conditions warrant.
   - Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling. No data available.

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Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- Physical States: [ ] Gas [X] Liquid [ ] Solid
- Appearance and Odor: A solution in methanol
- pH: No data.
- Melting Point: No data.
- Boiling Point: No data.
- Flash Pt: 11.00 C Method Used: Closed Cup
- Evaporation Rate: No data.
- Flammability (solid, gas): No data available.
- Explosive Limits: LEL: 6.0% at 25.0 C UEL: 36.0% at 25.0 C
- Vapor Pressure (vs. Air or mm Hg): 96 MM_HG at 20.0 C
- Vapor Density (vs. Air = 1): No data.
- Specific Gravity (Water = 1): No data.
- Solubility in Water: No data.
- Octanol/Water Partition Coefficient:
- Autoignition Pt: 385.00 C
- Decomposition Temperature: No data.
- Viscosity: No data.

9.2 Other Information

- Percent Volatile: No data.
- Molecular Formula & Weight: C12H16N2O • HCl 240.7
Section 10. Stability and Reactivity

10.1 Reactivity: No data available.
10.2 Stability: Unstable [ ] Stable [ X ]
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.
10.4 Conditions To Avoid: heat, flames, and sparks
10.5 Incompatibility - Materials acids
   To Avoid: acid anhydrides, acid chlorides, alkali metals, oxidizing agents, reducing agents
10.6 Hazardous Decomposition or Byproducts: carbon dioxide, carbon monoxide

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

   Methanol - Toxicity Data: Oral LD50 (rat): 5,600 mg/kg; Oral LD50 (rabbit): 14,200 mg/kg; Inhalation LC50 (rat): 64,000 ppm (4h); Inhalation LC50 (mouse): 61,100 ppm (134 m); Skin LD50 (rabbit): 15,800 mg/kg; Oral LDLO (human): 143 mg/kg;
   Methanol - Irritation Data: Skin (rabbit): 20 mg (24h) moderate; Eyes (rabbit): 40 mg moderate; Eyes (rabbit): 100 mg (24h) moderate;
   Methanol - Investigated as a drug, mutagen, primary irritant, reproductive effector, and tumorigen.
   Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
   Methanol RTECS Number: PC1400000
   CAS # Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA
   55206-22-9 5-hydroxy DMT (hydrochloride) | n.a. | n.a. | n.a. | n.a.
   67-56-1 Methanol | n.a. | n.a. | n.a. | n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.
   Runoff from fire control or dilution water may cause pollution.
12.2 Persistence and Degradability: No data available.
12.3 Bioaccumulative Potential: No data available.
12.4 Mobility in Soil: No data available.
12.5 Results of PBT and vPvB assessment: No data available.
12.6 Other adverse effects: No data available.
Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Methanol Solution
DOT Hazard Class: 3 (6.1) - FLAMMABLE LIQUID, POISON
UN/NA Number: UN1230
Packing Group: II

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Methanol Solution
UN Number: 1230
Packing Group: II
Hazard Class: 3 (6.1) - FLAMMABLE LIQUID, POISON

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Methanol Solution
UN Number: 1230
Packing Group: II
Hazard Class: 3 (6.1) - FLAMMABLE LIQUID, POISON
IATA Classification: 3, 6.1

Additional Transport Information:
Transport in accordance with local, state, and federal regulations.

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.
Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55206-22-9</td>
<td>5-hydroxy DMT (hydrochloride)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>No</td>
<td>Yes 5000 LB</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Other US EPA or State Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>55206-22-9</td>
<td>5-hydroxy DMT (hydrochloride)</td>
<td>CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>CAA HAP,ODC: HAP; VHAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes; RDTox.</td>
</tr>
</tbody>
</table>
Regulatory Information
This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date: 08/29/2018
Additional Information About This Product: No data available.

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