Section 1: Product Identification
Chemical Name: Molybdenum (IV) oxide, 99%
CAS Registry Number: 18868-43-4
Formula: MoO₂
EINECS Number: 242-637-7
Chemical Family: metal oxide
Synonym: Molybdenum dioxide, Molybdenous oxide.

Section 2: Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent</th>
<th>ACGIH (TWA)</th>
<th>OSHA (PEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title Compound</td>
<td>18868-43-4</td>
<td>100%</td>
<td>10mg/m³ (as Mo)</td>
<td>15mg/m³</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification
Emergency Overview: May be irritating to skin and eyes and respiratory tract.
Primary Routes of Exposure: Ingestion, inhalation
Eye Contact: May be a mild to severe irritant to the eyes.
Skin Contact: May cause slight to mild irritation of the skin.
Inhalation: Do not breath dust. Inhalation of powder may lead to irritation of the respiratory tract.
Ingestion: Ingestion may lead to vomiting and diarrhea.
Acute Health Affects: May be irritating to skin, eyes, mucous membranes and respiratory tract. Do not breath dust.
Chronic Health Affects: No information available on long-term chronic effects.
NTP: No
IARC: No
OSHA: No

SECTION 4: First Aid Measures
Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need Eye Exposure: assistance in keeping their eye lids open. Get immediate medical attention.
Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if Skin Exposure: irritation persists.
Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty Inhalation: in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce Ingestion: vomiting only if directed by medical personnel.

SECTION 5: Fire Fighting Measures
Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: None. Material is non-flammable.
Special Fire Fighting Procedures: Non-flammable. No special fire fighting procedures.
Hazardous Combustion and: No hazardous combustion or decomposition products.
Decomposition Products:
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures
Spill and Leak Procedures: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7: Handling and Storage
Handling and Storage: Store in a tightly sealed container.

SECTION 8: Exposure Controls and Personal Protection
Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear appropriate chemical resistant gloves and protective clothing.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Respirator:
Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties
Color and Form: purple pwdr.