

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product code** SS-1141 MO  
**Product name** 1000 ug/mL Molybdenum  
**Common Name** Molybdenum in Water Trace Ammonium Hydroxide  
**Manufacturer, importer, supplier** Teknolab  
P.O. Box 33  
1411 Kolbotn  
Norway  
Tel: + 47 66 81 34 70  
Fax: +47 66 81 34 71  
Web: www.spectrascan.no  
**Emergency telephone number** 800-424-9300 CHEMTREC (24 hrs)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% Weight	ACGIH*	OSHA*
7732-18-5	Water	~95-99.9	N/A	N/A
1336-21-6	Ammonium hydroxide	<0.1	N/A	N/A
13106-76-8	Ammonium molybdate	~0.1-1	10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA (respirable fraction)	15 mg/m3 TWA (total dust)

\* ACGIH - Occupational Exposure Limits - TWAs

\* OSHA - Final PELs - Time Weighted Averages (TWAs)

**3. HAZARDS IDENTIFICATION****Emergency Overview**

- Final product is not regulated

**Eye contact**

- Contact with eyes may cause irritation

**4. FIRST AID MEASURES**

<b>General advice</b>	<ul style="list-style-type: none"><li>Show this safety data sheet to the doctor in attendance</li></ul>
<b>Skin contact</b>	<ul style="list-style-type: none"><li>Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes</li></ul>
<b>Eye contact</b>	<ul style="list-style-type: none"><li>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li><li>Keep eye wide open while rinsing</li><li>If eye irritation persists, consult a specialist</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>Move to fresh air</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>If conscious, drink plenty of water</li><li>Consult a physician</li></ul>

**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	NA
<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"><li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</li></ul>
<b>Specific hazards</b>	<ul style="list-style-type: none"><li>None</li></ul>
<b>Specific methods</b>	<ul style="list-style-type: none"><li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations</li></ul>

<b>Special protective equipment for firefighters</b>	<ul style="list-style-type: none"> <li>As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>Ensure adequate ventilation</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>Prevent further leakage or spillage if safe to do so</li> <li>Prevent product from entering drains</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>Dam up</li> <li>Pick up and transfer to properly labelled containers</li> <li>Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container</li> <li>After cleaning, flush away traces with water</li> </ul>

## 7. HANDLING AND STORAGE

### Handling

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>Use only in area provided with appropriate exhaust ventilation</li> </ul>
<b>Safe handling advice</b>	<ul style="list-style-type: none"> <li>Wear personal protective equipment</li> </ul>

### Storage

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>Keep in properly labelled containers</li> <li>Store at room temperature in the original container</li> <li>Keep containers tightly closed in a dry, cool and well-ventilated place</li> </ul>
<b>Incompatible products</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Personal protective equipment</b>	
<b>Hand protection</b>	<ul style="list-style-type: none"> <li>impervious gloves</li> </ul>
<b>Eye protection</b>	<ul style="list-style-type: none"> <li>tightly fitting safety goggles</li> </ul>
<b>Respiratory protection</b>	<ul style="list-style-type: none"> <li>Ensure adequate ventilation</li> </ul>
<b>Skin and body protection</b>	<ul style="list-style-type: none"> <li>Chemical resistant apron</li> <li>Lab coat</li> </ul>
<b>Hygiene measures</b>	<ul style="list-style-type: none"> <li>When using, do not eat, drink or smoke</li> <li>Regular cleaning of equipment, work area and clothing</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form</b>	liquid.
<b>Appearance</b>	clear
<b>Colour</b>	None.
<b>Odour</b>	None.

### Important Health Safety and Environmental Information

<b>pH</b>	5 to 8
<b>Boiling point/range</b>	100°C
<b>Flash point</b>	N/A
<b>Vapour pressure</b>	NA.
<b>Water solubility</b>	miscible.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	<ul style="list-style-type: none"> <li>Stable under normal conditions</li> <li>Hazardous polymerisation does not occur</li> </ul>
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<b>Materials to avoid</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Hazardous decomposition products</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Component Information

CAS	Chemical Name	% Weight	LD50/oral/rat =	LD50/dermal/rat =
7732-18-5	Water	~95-99.9	N/A	N/A
1336-21-6	Ammonium hydroxide	<0.1	Oral LD50 Rat: 350 mg/kg	Oral LD50 Rat: 350 mg/kg
13106-76-8	Ammonium molybdate	~0.1-1	N/A	N/A

#### Product Information

<b>Local effects</b>	Poison
<b>Eye irritation</b>	May cause eye irritation with susceptible persons.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin irritation</b>	May cause skin irritation and/or dermatitis.
<b>Chronic toxicity</b>	Avoid repeated exposure. Overexposure may cause: diarrhea, gastrointestinal disturbance.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

#### Component Information

#### Product Information

Do not allow material to contaminate ground water or sewage system

#### Other information

## 13. DISPOSAL CONSIDERATIONS

<b>Waste from residues / unused products</b>	<ul style="list-style-type: none"> <li>In accordance with local and national regulations</li> </ul>
<b>Contaminated packaging</b>	<ul style="list-style-type: none"> <li>Empty containers should be taken for local recycling, recovery or waste disposal</li> </ul>

## 14. TRANSPORT INFORMATION

**DOT** Final product is not regulated

**IATA-DGR** Final product is not regulated

## 15. REGULATORY INFORMATION

#### U.S. INVENTORIES:

CAS	Chemical Name	% Weight	CPCL*	NJRTK*	CERCLA/SARA*
7732-18-5	Water	~95-99.9	N/A	N/A	N/A
1336-21-6	Ammonium hydroxide	<0.1	N/A	sn 0103	1000 lb final RQ; 454 kg final RQ
13106-76-8	Ammonium molybdate	~0.1-1	N/A	sn 0105	N/A

\* CPCL - California - Proposition 65 - Carcinogens List

\* NJRTK - New Jersey - Department of Health RTK List

\* CERCLA/SARA - Hazardous Substances and their Reportable Quantities

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#### INTERNATIONAL INVENTORIES:

CAS	Chemical Name	% Weight	WHMIS*	EINECS - European Union*
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7732-18-5	Water	~95-99.9	Uncontrolled product according to WHMIS classification criteria	231-791-2
1336-21-6	Ammonium hydroxide	<0.1	D1B, E	215-647-6
13106-76-8	Ammonium molybdate	~0.1-1	Uncontrolled product according to WHMIS classification criteria	236-031-3

\* WHMIS - Canada - WHMIS - Classifications of Substances

\* EINECCS - European Union - European inventory of Existing Commercial Chemical Substances (EINECCS)

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## 16. OTHER INFORMATION

The above information is believed to be accurate and represents the best information available to us. It has been compiled from the data presented in various technical publications and our experience and should only be used as a guide for handling this product. It is the user's responsibility to determine the suitability of this information for their particular purposes. We assume that only qualified individuals, trained and familiar with procedures suitable to this product will handle this material. Teknolab assumes no responsibility and shall not be held liable for any damage resulting from misuse of this product.