Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

1 Identification
· Product identifier
 Trade name: <u>Molybdenum Titrating Soln</u> Product code: MO1547SS
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
• Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).
[•] Label elements • GHS label elements Not regulated.

Hazard pictograms: None.
 Signal word:

None.

None.

Γ

· Hazard statements: None.

· Precautionary statements: None.

· Other hazards There are no other hazards not otherwise classified that have been identified.

· Chemical	characterization: Mixtures	
· Compone	nts:	
77-92-9	Citric acid	3.20%
	Eye Irrit. 2A, H319; STOT SE 3, H335	
110-44-1	hexa-2,4-dienoic acid	0.01%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	

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96.79%

Trade name: Molybdenum Titrating Soln

7732-18-5 Water

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Rinse with warm water.

If skin irritation is experienced, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· Danger: No relevant information available.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

• Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- [•] Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation.

· Environmental precautions No special measures required.

[•] Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

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Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- [·] Handling
- · Precautions for safe handling: No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:
- Do not store together with alkalis (caustic solutions).
- Further information about storage conditions: Keep containers tightly sealed.
- Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Keep away from foodstuffs, beverages and feed.
- Engineering controls: No relevant information available.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands: Gloves not required under normal conditions of use.
- · Material of gloves
- Nitrile rubber, NBR
- Butyl rubber, BR
- Neoprene gloves
- Natural rubber, NR
- Sensibilization by the components in the glove materials is possible.
- Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

Body protection: Protective work clothing

• Limitation and supervision of exposure into the environment No special requirements.

· Risk management measures No special requirements.

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Physical and chemical properties	
[·] Information on basic physical an	d chemical properties
· Appearance:	
Form:	Liquid
Color: · Odor:	Colorless Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
• Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	100-102 °C (212-151.6 °F)
· Flash point:	The product is not flammable.
Flash point.	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
• •	
 Explosion limits Lower: 	Not determined.
Upper:	Not determined.
· Oxidizing properties:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	>1.02 g/cm³ (>8.51 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.
 Solubility in / Miscibility with 	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water	r): Not determined.
· Viscosity	
Dynamic at 20 °C (68 °F):	0.952 mPas
Kinematic:	Not determined.
• Other information	No relevant information available.

10 Stability and reactivity

• **Reactivity:** No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

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	(Cont'd. of page
Reacts with alkali (lyes).	
Conditions to avoid Excessive heat.	
Incompatible materials Alkalis.	
Hazardous decomposition products	
Under fire conditions only:	
Possible in traces.	
14 Toxicological information	
11 Toxicological information	
Information on toxicological effects	
 Acute toxicity: LD/LC50 values that are relevant for classification: None. 	
· Primary irritant effect:	
• On the skin: Based on available data, the classification criteria are not met.	
• On the eye: Based on available data, the classification criteria are not met.	
• Sensitization: Based on available data, the classification criteria are not met.	
· IARC (International Agency for Research on Cancer):	
None of the ingredients are listed.	
· NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	
· Probable route(s) of exposure:	
Ingestion.	
Inhalation.	
Eye contact. Skin contact.	
• Acute effects (acute toxicity, irritation and corrosivity): No relevant informa	tion available
• Repeated dose toxicity: No relevant information available.	
Germ cell mutagenicity: Based on available data, the classification criteria are	e not met.
Carcinogenicity: Based on available data, the classification criteria are not me	
· Reproductive toxicity: Based on available data, the classification criteria are r	not met.
• STOT-single exposure: Based on available data, the classification criteria are	
STOT-repeated exposure: Based on available data, the classification criteria a	
· Aspiration hazard: Based on available data, the classification criteria are not n	net.
12 Ecological information	
· Toxicity	
• Aquatic toxicity No relevant information available.	
Persistence and degradability No relevant information available.	

- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
 General notes: Generally not hazardous for water.
- Other adverse effects No relevant information available.

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13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA Class	Not regulated.	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA Section 302 (extremely hazardous substances): None of the ingredients are listed. Section 313 (Specific toxic chemical listings): None of the ingredients are listed. TSCA (Toxic Substances Control Act) All ingredients are listed or exempt.

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Contid. of page Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental toxicity for females: None of the ingredients are listed. Chemicals known to cause developmental toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity in the ingredients are listed. Chemicals known to cause developmental toxicity for males: None of the ingredients are listed. EPA (Environmental Protection Agency): None of the ingredients are listed. Canadian Domestic Substances List (DSL): None of the ingredients are listed. Canadian Domestic Substances List (DSL): None of the ingredients are listed. Chemicals known to sased on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship. ADR: European Agreement Compression NOT: US Department of Transport Association CAS: Chemical Abstracts Sevice (division of the American Chemical Society) LCS0: Lethal cocentradion, Sop percent USS: International Aper collegory 2A STOT 55: Specific arged organ toxicity (single exposure) – Category 3 Sources Sources Website, US EPA Substancts Registry American Chemical Society (www.cas.org) Pathys Industral Hygene, 6th ed., ROse, Vernon, ed. ISB: 978-0-470-07488-6 Casarett and Douli's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISE Grabult, Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tamap, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intt. +01 813-248-0573 Website: ChemTel	aue fidi	ne: Molybdenum Titrating Soln	
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