



# SAFETY DATA SHEET


According to 29 CFR 1910.1200 Hazard Communication Standard 2024 (HCS 2024)

Revision: 3/18/2025

## SECTION 1: Identification

<b>Product identifier</b>	
Product name	Molybdenum Buffer Solution
Product number	R-0890; R-0890-PL
<b>Recommended use and restrictions</b>	Water analysis. To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.
<b>Manufacturer</b>	Taylor Water Technologies LLC 31 Loveton Circle Sparks, MD 21152 Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST
<b>Emergency phone number</b>	
CHEMTREC, United States	1-800-424-9300 – 24-hour service
CHEMTREC, International	+1 703-741-5970 – 24-hour service

## SECTION 2: Hazard(s) Identification

<b>Physical hazards</b>	Not applicable	
<b>Health hazards</b>	Skin corrosion/irritation	Category 1C
	Eye damage/irritation	Category 1
<b>Environmental hazards</b>	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.	
<b>Label elements</b>		
Hazard pictograms		
Signal word	Danger	
Hazard statements	Causes severe skin burns and serious eye damage.	
Precautionary statements		
Prevention	Do not breathe mists or vapor. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.	
Storage	Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazards not otherwise classified</b>	Not applicable	

## SECTION 3: Composition/Information on Ingredients

<b>Mixture</b>			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	45–70
Acetic acid	Glacial acetic acid	64-19-7	10–30
Nonhazardous and other component(s) below reportable	Not applicable	Not applicable	< 25

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: First-Aid Measures

### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

### If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

### Most important symptoms and effects, both acute and delayed

Direct skin or eye contact may cause corrosive burns. Symptoms may include pain, redness, or swelling. Scarring or permanent damage, including blindness, could result. Inhalation may cause severe respiratory irritation, such as coughing and wheezing. Inhalation could result in pulmonary edema, symptoms—chest pain, shortness of breath—may be delayed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and bleeding.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

### Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

### General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## SECTION 5: Firefighting Measures

### Extinguishing media

Suitable extinguishing media      Alcohol-resistant foam, carbon dioxide, dry chemical powder, or water fog.

Unsuitable extinguishing media      Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Specific hazards arising from the substance or mixture

Fire hazard      Not flammable

Explosion hazard      Not explosive

Reactivity      Hazardous reactions will not occur under normal conditions.

Hazardous combustion products      Carbon oxides, sodium oxides.

### Advice for firefighters

Precautionary measures      Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting equipment/instructions      Use water spray or fog for cooling exposed containers.

Protection during firefighting      Do not enter fire area without proper protective equipment, including respiratory protection.

Other information      Refer to section 9 of the SDS for flammability properties.

## SECTION 6: Accidental Release Measures

### Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mists or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

### Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

### Methods and material for containment and cleaning up

Ventilate the area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in non-combustible material, such as vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same

hazards as the spilled product. In the event of large spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

## SECTION 7: Handling and Storage

#### Precautions for safe handling

Do not breathe mists or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

#### Conditions for safe storage, including any incompatibilities

Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F- 85°F. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure Controls/Personal Protection

#### Occupational exposure limits

##### US ACGIH Threshold Limit Values

Components	Type	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m <sup>3</sup>
	TWA	25 mg/m <sup>3</sup>

##### US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m <sup>3</sup>
	TWA	25 mg/m <sup>3</sup>

##### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetic acid (CAS 64-19-7)	TWA	25 mg/m <sup>3</sup>

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Exposure controls

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.
Personal protective equipment	
Eye/face protection	Wear appropriate chemical safety goggles.
Skin protection	Wear appropriate chemical-resistant gloves. Material selection should be based on the glove manufacturer's chemical resistance guide.
Body protection	Wear appropriate protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Clear, colorless
Odor	Pungent, vinegar-like
Odor threshold	No data available
pH	4.5
Melting point/freezing point	No data available
Initial boiling point (boiling range)	No data available

Flammability (solid, gas)	No data available
Upper Flammability Limit (%)	No data available
Lower Flammability Limit (%)	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure (evaporation rate)	No data available
Density and/or relative density	No data available
Relative vapor density	No data available
Particle characteristics	Not applicable

## SECTION 10: Stability and Reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions of use, storage, and transport.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions (refer to section 7 of the SDS)
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use
<b>Conditions to avoid</b>	Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids and bases. Chromic acid, nitric acid, permanganates, and peroxides.
<b>Hazardous decomposition products</b>	No hazardous decomposition products under normal conditions.

## SECTION 11: Toxicological Information

<b>Information on likely routes of exposure</b>	
Inhalation	Avoid inhalation of this product. Use in a well-ventilated area.
Skin contact	Protect exposed skin from contact. Use caution to avoid splashes.
Eye contact	Avoid close eye contact; use caution to avoid splashes. Wear eye protection.
Ingestion	Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after handling this product.
<b>Symptoms related to the physical, chemical, and toxicological characteristics</b>	Refer to section 4 of the SDS for most important symptoms and effects.
<b>Delayed and immediate effects and chronic effects from short- and long-term exposure</b>	
<b>Acute toxicity</b>	This product is not classified as an acute toxicity hazard.
<b>Skin corrosion/irritation</b>	Causes severe skin burns
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage
<b>Respiratory sensitization</b>	No data available
<b>Skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Not classified	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)</b>	
Not regulated	
<b>US National Toxicology Program (NTP) Report on Carcinogens</b>	
Not classified	
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity (single exposure)</b>	No data available

<b>Specific target organ toxicity (repeated exposure)</b>	No data available
<b>Aspiration hazard</b>	No data available

## SECTION 12: Ecological Information

<b>Ecotoxicity</b>	This product is not classified as environmentally hazardous.
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal Considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport Information

### DOT

<b>UN number</b>	UN2790
<b>UN Proper shipping name</b>	Acetic acid solution, 10–30%
<b>Reportable Quantity</b>	5000 lbs, Acetic acid
<b>Class (Subsidiary risk)</b>	8
<b>Label(s)</b>	8
<b>Packing group</b>	III
<b>Special provisions</b>	148, IB3, T4, TP1
<b>Packaging exceptions</b>	154
<b>Packaging, non-bulk</b>	203

### IATA

<b>UN number</b>	UN2790
<b>UN Proper shipping name</b>	Acetic acid solution, 10–30%
<b>Class (Subsidiary risk)</b>	8
<b>Packing group</b>	III
<b>Special provisions</b>	None

### IMDG

<b>UN number</b>	UN2790
<b>UN Proper shipping name</b>	Acetic acid solution, 10–30%
<b>Class (Subsidiary risk)</b>	8
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special provisions</b>	None
<b>EmS</b>	F-A, S-B

**Special precautions for user** Read safety instructions, SDS, and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.

**DOT hazard pictograms**





## SECTION 15: Regulatory Information

### US federal regulations

#### CERCLA Hazardous Substance (40 CFR 302.4)

<u>Chemical name</u>	<u>CAS number</u>	<u>Reportable Quantity</u>
Acetic acid	64-19-7	5000 lbs

#### SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

#### SARA 304 Emergency Release Notification

Not regulated

#### SARA 311/312 Hazardous Chemical

<u>Chemical name</u>	<u>CAS number</u>
Acetic acid	64-19-7

#### SARA 313 (TRI reporting)

Not regulated

#### TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

#### Safe Drinking Water Act (SDWA)

Not regulated

### US state regulations

#### California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

#### Massachusetts Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Acetic acid	64-19-7

#### New Jersey Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Acetic acid	64-19-7

#### Pennsylvania Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Acetic acid	64-19-7

#### Rhode Island Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Acetic acid	64-19-7

## SECTION 16: Other Information

### NFPA Rating

Health hazard	3
Fire hazard	0
Reactivity	1
Specific	N/A

### Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Water Technologies LLC disclaims all expressed or implied warranties and assumes no responsibility for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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### Issue date:

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3/18/2025

### Revision information:

Identification: Manufacturer information

Composition/Information on ingredients: Adjust weight percent ranges reported

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