

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Revision: 12/28/2023

SECTION 1: Identification

Product identifier

Product name Molybdenum Indicator Solvent

Product number R-0901

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Not classified

Manufacturer 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

Emergency phone number

CHEMTREC, United States 1-800-424-9300 – 24-hour service CHEMTREC, International +1 703-741-5970 – 24-hour service

SECTION 2: Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsEye damage/irritationCategory 2ASpecific target organ toxicity, single exposureCategory 1

Environmental hazards

Label elements

Hazard pictograms



Signal word Danger

Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. Causes damage to central

nervous system and optic nerve.

Precautionary statements

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/Bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash skin thoroughly after handling. Do not breathe mist or vapors. Use only outdoors or in a well-ventilated area. Do not eat, drink, or

smoke when using this product.

Response IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical

advice/attention.

IF EXPOSED: Call a physician or poison control center.

IN CASE OF FIRE: Use alcohol-resistant foam, carbon dioxide, dry chemical powder, or water

fog to extinguish.

Storage Store in well-ventilated place. Keep cool. 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.

Hazards not otherwise classified Not applicable

Additional label information WARNING: Reproductive Harm - www.P65Warnings.ca.gov

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SECTION 3: Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Ethyl alcohol	Ethanol	64-17-5	80-100
Water	Not applicable	7732-18-5	5-10
Methyl alcohol	Methanol	67-56-1	1-5

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 advice/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 advice/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 irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Inhalation may cause headache, drowsiness, or dizziness. Ingestion may cause central nervous system depression, changes to vision, gastrointestinal irritation, nausea, vomiting, and diarrhea. Symptoms of methanol poisoning from ingestion may be delayed.

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

Overexposure can result in methanol poisoning. Symptoms may include confusion, loss of coordination, changes to vision which may become permanent, vomiting, and abdominal pain. Methanol poisoning from oral exposure is serious and life-threatening. Concerns of overexposure should be evaluated by a medical provider immediately.

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 Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition

and flash back. This product is a poor conductor of electricity and can be electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential static discharge, use proper bonding and grounding procedures. This material may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and may spread along

floors.

Explosion hazard Vapors may form explosive mixtures with air. This material may be ignited by heat, sparks,

flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical

equipment). Vapors are heavier than air and may spread along floors.

Reactivity Hazardous reactions will not occur under normal conditions.

Advice for firefighters

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

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

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 mist or vapors. 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 contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb in 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 a 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

Vapors may form explosive mixtures with air. Keep away from sources of ignition. NO SMOKING. Do not handle, store, or open near an open flame, sources of heat or sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mists/vapors/spray. 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 in well-ventilated place. Keep cool. Keep tightly capped. Store locked up. Store out of direct sunlight between 36°F-85°F. Store away from incompatible materials (refer to section 10 of the SDS).

Type

Value

200 ppm (260 mg/m³)

SECTION 8: Exposure controls/personal protection

Occupational	OVNOCUEO	limite
Occubational	exposure	IIMITS

Components

US ACGIH Threshold Limit Values

	- 7 -	
Ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm (1880 mg/m ³)
Methyl alcohol (CAS 67-56-1)	TLV-TWA	200 ppm (260 mg/m ³)
	STEL	250 ppm (325 mg/m ³) (skin)
US NIOSH: Pocket Guide to Chemical Haza	ards	
Components	Туре	Value
Ethyl alcohol (CAS 64-17-5)	TWA	1000 ppm (1880 mg/m ³)
	IDLH	3300 ppm (6240 mg/m ³)
Methyl alcohol (CAS 67-56-1)	TWA	200 ppm (260 mg/m ³)
	ST	250 ppm (325 mg/m ³) (skin)
	IDLH	6000 ppm (7860 mg/m ³)
US OSHA Table Z-1 Limits for Air Contami	nants (29 CFR 1910.1000)	
Components	Туре	Value
Ethyl alcohol (CAS 64-17-5)	TWA	1000 ppm (1900 mg/m ³)

Biological limit values

ACGIH Biological Exposure Indices

Methyl alcohol (CAS 67-56-1)

Components	Value	Determinant	Specimen	Sampling Time
Methyl alcohol (CAS 67-56-1)	15 mg/L	Methanol	Urine	End of shift

TWA

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 and clothing.

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 Alcohol

Odor threshold

pH

No data available

Evaporation rate

Melting point/freezing point

Initial boiling point (boiling range)

No data available

No data available

174°F (78°C)

Flash point 57°F (14°C) Closed cup

Specific gravity No data available No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Flammable liquid Upper Flammability Limit UEL 19% v/v LEL 3.3% v/v Lower Flammability Limit Vapor pressure No data available Vapor density No data available 0.81 g/ml 68°F (20°C) Relative density Solubility Soluble in water 1.2 cP 68°F (20°C)

Partition coefficient (n-octanol/water)

Viscosity

No data available Not explosive

Explosive properties Not explosive Oxidizing properties Not oxidizing

SECTION 10: Stability and reactivity

ReactivityHazardous reactions will not occur under normal conditions of use, storage, and transport. **Chemical stability**Stable under recommended handling and storage conditions (refer to section 7 of the SDS.)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, sparks, open flames, and other ignition sources. Temperatures exceeding the flash point.

Direct sunlight. Contact with incompatible materials. Do not use in areas without adequate

ventilation.

Incompatible materials Strong acids. Strong oxidizing agents. Halogenated hydrocarbons, isocyanates, nitrites,

organic material.

Hazardous decomposition

products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

Information on likely routes of exposure

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.

Symptoms related to the physical, chemical, and toxicological characteristics

Acute toxicity

Refer to section 4 of the SDS for most important symptoms and effects.

This product is not classified as an acute toxicity hazard. Acute toxicity estimate (ATE) has

been calculated based on Chapter 3 of GHS.

Product acute toxicity estimate (ATE)

ATEmix (Oral) > 2500 mg/kg

ATEmix (Dermal) No data available

ATEmix (Inhalation) > 20 mg/L

Component(s) Species Acute toxicity data

Methyl alcohol (CAS 67-56-1)

 LD50 (Oral)
 Rat
 1187 mg/kg

 LD50 (Dermal)
 Rabbit
 No data available

 LC50 (Inhalation)
 Rat
 43.7 mg/L

Skin corrosion/irritation No data available

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classified

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not classified

Reproductive toxicity No data available

Specific target organ toxicity

(single exposure)

Causes damage to organs.

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazardNo data available

SECTION 12: Ecological information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data available

Other adverse effects 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

UN number UN1170

UN Proper shipping name Ethanol solution

Reportable Quantity

Class (Subsidiary risk)

Label(s)

Packing group

None

3

II

Special provisions 24, IB2, T4, TP1

Packaging exceptions 4b, 150
Packaging, non-bulk 202

IATA

UN number UN1170

UN Proper shipping name Ethanol solution

Class (Subsidiary risk) 3
Packing group II

Special provisions A3, A58, A180

IMDG

UN number UN1170

UN Proper shipping name Ethanol solution

Class (Subsidiary risk) 3
Packing group ||

Environmental hazards

Marine pollutantNoSpecial provisions144EmSF-E, S-D

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



IATA; IMDG hazard pictograms

SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Methyl alcohol 67-56-1 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

Chemical name	CAS number	
Ethyl alcohol	64-17-5	
Methyl alcohol	67-56-1	

SARA 313 (TRI reporting)

Chemical nameCAS numberMethyl alcohol67-56-1

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)

WARNING: This product can expose you to methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Massachusetts Right-to-Know Act

Chemical name	CAS number	
Methyl alcohol	67-56-1	

New Jersey Worker and Community Right-to-Know Act

Chemical name	CAS number	
Ethyl alcohol	64-17-5	
Methyl alcohol	67-56-1	

Pennsylvania Worker and Community Right-to-Know Act

Chemical name	CAS number
Ethyl alcohol	64-17-5
Methyl alcohol	67-56-1

Rhode Island Right-to-Know Act

Chemical name	CAS number
Ethyl alcohol	64-17-5

Methyl alcohol 67-56-1

SECTION 16: Other information

NFPA Rating	
Health hazard	2
Fire hazard	3
Reactivity	0
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 of 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:

May 2015

Revision date:

12/28/2023

Revision information:

Identification: Manufacturer information and emergency phone

First-aid: Most important symptoms and effects, both acute and delayed; Indication of any immediate medical attention and special treatment needed

Toxicological Information: Information on likely routes of exposure

Supersedes revision dated August 2018.