

# **SAFETY DATA SHEET**

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

Revision: 04/12/2021

Product identifier		
Product name	Molybdenum 60 - Reagent B	
Product number	R-8028B	
Recommended use and restrictions	To be used in accordance with manufactu manufacturer.	rer instructions or under the direct guidance of the
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm ES	ST
Emergency phone number		
CHEMTREC, United States	1-800-424-9300 – 24-hour service	
CHEMTREC, International	+1 703-741-5970 – 24-hour service	
CTION 2: Hazard(s) Identific	cation	
Physical hazards	Not applicable	
Health hazards	Eye damage/irritation	Category 2A
	Skin corrosion/irritation	Category 2
Environmental hazards	Not currently regulated by OSHA. For add	litional information, refer to section 12 of the SDS.
Label elements Hazard pictograms		
Signal word	Warning	
Hazard statements	Causes serious eye irritation. Causes skin	irritation.
Precautionary statements		
Prevention	Wash skin thoroughly after handling. Wea occur.	r eye protection/face protection if contact is likely
Response	and easy to do. Continue rinsing. IF EYE	plenty of water. IF SKIN IRRITATION OCCURS: (
Storage	Keep tightly capped. Store out of direct su	Inlight between 36°F–85°F.
Disposal	Dispose of contents/container in accordan regulations.	nce with local/regional/national/international

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	65-85
Acetic acid	Glacial acetic acid	64-19-7	5-10
Nonhazardous and other components below reportable levels	Not applicable	Not applicable	<15

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 eve contact

Immediately flush eves 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

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

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

Provide general supportive measures and treat symptomatically.

## **General information**

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

## SECTION 5: Firefighting Measures

<b>Extinguishing media</b> Suitable extinguishing media Unsuitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry chemical powder, or water fog. Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Carbon oxides, Sodium oxides. Other irritating fumes and smoke
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 dust/fumes/gas/mist/vapors/spray. 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 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

## Personal precautions, protective equipment, and emergency procedures

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mist/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

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	Туре	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m <sup>3</sup>
	TWA	25 mg/m <sup>3</sup>
S NIOSH: Pocket Guide to Chemical Hazards		
Components	Туре	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	Туре	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 if contact is likely to occur.
Skin protection	Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.
Body protection	Wear appropriate protective clothing if contact is likely to occur.
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
Odor threshold	No data available
рН	4.5
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	No data available
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Upper Flammability Limit	No data available

Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

# SECTION 10: Stability and Reactivity

Reactivity	Hazardous reactions will not occur under normal conditions.
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	Contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials	Strong oxidizing agents. Strong acids and bases.
Hazardous decomposition products	No hazardous decomposition products under normal conditions.

# **SECTION 11: Toxicological Information**

## Information on toxicological effects

Likely routes of exposure are se	<b>kin/eye contact and ingestion.</b> Direct skin contact may cause irritation. Symptoms may include redness and itching.
Most important symptoms/effects, acute and delayed	Direct eye contact may cause serious irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
	Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties.
	Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Acute toxicity	This product is not classified as an acute toxicity hazard.
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Causes serious eye irritation
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC Monographs. Overall Eval Not classifiable	uation of Carcinogenicity
OSHA Specifically Regulated Su No data available	ubstances (29 CFR 1910.1001-1096)
US National Toxicology Prograr No data available	n (NTP) Report on Carcinogens
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
CTION 12: Ecological Inform	ation
Ecotoxicity	No data available.
Persistence and degradability	No data available
Bioaccumulative potential	No data available

Other adverse effects

No data available

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.

Dispose of contents/container in ac			0
TION 14: Transport Inform	mation		
ТОСТ	Not regulated as dat	igerous goods	
ΑΤΑ	Not regulated as dat	igerous goods	
MDG	Not regulated as dat	igerous goods	
TION 15: Regulatory Infor	-		
JS federal regulations			
CERCLA Hazardous Substand	ce (40 CFR 302.4)		
Chemical name	CAS number	Reportable Quantity	
Acetic acid	64-19-7	5000 lbs	
SARA 302 Extremely Hazardo Not regulated	us Substance (40 CFR	355 Appendices A / B)	
SARA 304 Emergency Releas	e Notification		
Not regulated			
SARA 311/312 Hazardous Che	emical		
Chemical name	CAS number		
Acetic acid	64-19-7		
SARA 313 (TRI reporting)			
Not regulated			
TSCA Section 8(b) Chemical I	nventory		
All components are on the U.	S. EPA TSCA Inventory	list.	
TSCA Section 12(b) Export No	otification (40 CFR 707,	Subpt. D)	
Not regulated		• •	
Other federal regulations			
Clean Air Act (CAA) Section 1	12 Hazardous Air Pollu	tants (HAPs)	
Not regulated			
Clean Air Act (CAA) Section 1	12(r) Accidental Relea	e Prevention (40 CFR 68-130	))
Not regulated			7
-	riority Pollutanta (40.0)	D 401 15 and CED 402 Arms	ndiy A)
Clean Water Act, Toxic and Pi	nonty Pollutants (40 C	к 401.15 ана стк 423, Арре	muix A)
Not regulated			
Safe Drinking Water Act (SDW	/A)		
Not regulated			
JS state regulations			nosition
JS state regulations California Safe Drinking Wate	r and Toxic Enforceme	nt Act of 1986 (California Pro	position
•	r and Toxic Enforceme	nt Act of 1986 (California Pro	position
California Safe Drinking Wate		nt Act of 1986 (California Pro	φοδιτιοί
California Safe Drinking Wate Not regulated		nt Act of 1986 (California Pro	position
California Safe Drinking Wate Not regulated Massachusetts Right-to-Know	v Act	nt Act of 1986 (California Pro	position
California Safe Drinking Wate Not regulated Massachusetts Right-to-Know Chemical name	v Act <u>CAS number</u> 64-19-7		position
California Safe Drinking Wate Not regulated Massachusetts Right-to-Know <u>Chemical name</u> Acetic acid	v Act <u>CAS number</u> 64-19-7		μοσιτιοπ
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California Safe Drinking Wate Not regulated Massachusetts Right-to-Know <u>Chemical name</u> Acetic acid New Jersey Worker and Comm <u>Chemical name</u>	v Act <u>CAS number</u> 64-19-7 munity Right-to-Know / <u>CAS number</u> 64-19-7	Act	μοσιτιοπ

Acetic acid	64-19-7
Rhode Island Right-to-	Know Act
Chemical name	CAS number
Acetic acid	64-19-7
ECTION 16: Other Info	rmation
NFPA Rating	
Health hazard	2
Fire hazard	0
Reactivity	0
Specific	

#### Disclaimer

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## Issue date:

May 2015

## **Revision date:**

04/12/2021

## **Revision information:**

This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.