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1 Identification
· Product identifier
<ul> <li>Trade name: <u>Molybdenum Indicator Solution</u></li> <li>Product code: DU11753521</li> </ul>
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>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</li> <li>Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647</li> </ul>
Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
2 Hazard(s) identification · Classification of the substance or mixture
Classification of the substance or mixture
Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.
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Classification of the substance or mixtureFlam. Liq. 2H225Highly flammable liquid and vapor.Acute Tox. 3H301Toxic if swallowed.Acute Tox. 3H311Toxic in contact with skin.Acute Tox. 3H331Toxic if inhaled.Eye Irrit. 2AH319Causes serious eye irritation.
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H370	(Cont'd. of page 1) Causes damage to the central nervous system and optic nerve.
· Precautionary	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P330	Rinse mouth.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
1 000 11 001 11 3	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P337+P313	If eye irritation persists: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use for extinction: Alcohol resistant foam or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
<sup>.</sup> Other hazard	<b>Is</b> There are no other hazards not otherwise classified that have been identified.

## **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Compone	ents:	
64-17-5	Ethanol Flam. Liq. 2, H225 Eye Irrit. 2A, H319	85.5%
67-56-1	Methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	13.5%
538-62-5	1,5-diphenylcarbazone	1%
	al information:	

#### 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

(Cont'd. on page 3)

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	(Cont'd. of p
Description of first aid measures	
General information:	
Immediately remove any clothing soiled by the product.	
Take affected persons out into the fresh air.	
After inhalation:	
Supply fresh air.	
Provide oxygen treatment if affected person has difficulty breathing.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
After skin contact:	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with	water/shower.
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. Then 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:	
Nausea in case of ingestion.	
Breathing difficulty	
Coughing	
Causes mild skin irritation.	
Causes eye irritation.	
Gastric or intestinal disorders when ingested.	
Acidosis	
Nausea	
Blindness	
Disorientation	
Unconsciousness	
Danger:	
Danger of impaired breathing.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes damage to the central nervous system and optic nerve.	
Indication of any immediate medical attention and special treatment needed:	
Medical supervision for at least 48 hours.	
If necessary oxygen respiration treatment.	
Later observation for pneumonia and pulmonary edema.	
If medical advice is needed, have product container or label at hand.	

# Extinguishing media Suitable extinguishing agents:

Alcohol resistant foam Carbon dioxide Fire-extinguishing powder Gaseous extinguishing agents Water fog / haze

• For safety reasons unsuitable extinguishing agents: Water stream.

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	(Cont'd. of page 3
• Special hazards arising from the substance or mixture	(00
Highly flammable liquid and vapor.	
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.	
Additional information:	
Eliminate all ignition sources if safe to do so.	
Use large quantities of foam as it is partially destroyed by the product.	
Cool endangered receptacles with water in flooding quantities.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency proc	euules
Ensure adequate ventilation. Keep away from ignition sources.	
Protect from heat.	
Wear protective equipment. Keep unprotected persons away.	
For large spills, use respiratory protective device against the effects of fumes/	dust/aerosol.
· Environmental precautions	
Do not allow to enter sewers/ surface or ground water.	
Inform respective authorities in case of seepage into water course or sewage	system.
Methods and material for containment and cleaning up	,
Absorb with non-combustible liquid-binding material (sand, diatomite, acid bin	ders, universal binders).
Send for recovery or disposal in suitable receptacles.	· · · · · · · · · · · · · · · · · · ·
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	
<ul> <li>Precautions for safe handling:</li> <li>Prevent formation of aerosols.</li> </ul>	
Avoid splashes or spray in enclosed areas.	
Use only in well ventilated areas.	
· Information about protection against explosions and fires:	
Highly flammable liquid and vapor.	
Keep ignition sources away - Do not smoke.	
Protect against electrostatic charges.	
Flammable gas-air mixtures may be formed in empty containers/receptacles.	
· Conditions for safe storage, including any incompatibilities	
Requirements to be met by storerooms and receptacles: Store in a cool location.	
• <b>Requirements to be met by storerooms and receptacles:</b> Store in a cool location. Avoid storage near extreme heat, ignition sources or open flame.	
• Requirements to be met by storerooms and receptacles: Store in a cool location.	

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

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Store away from foodstuffs. Store away from oxidizing agents. • Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

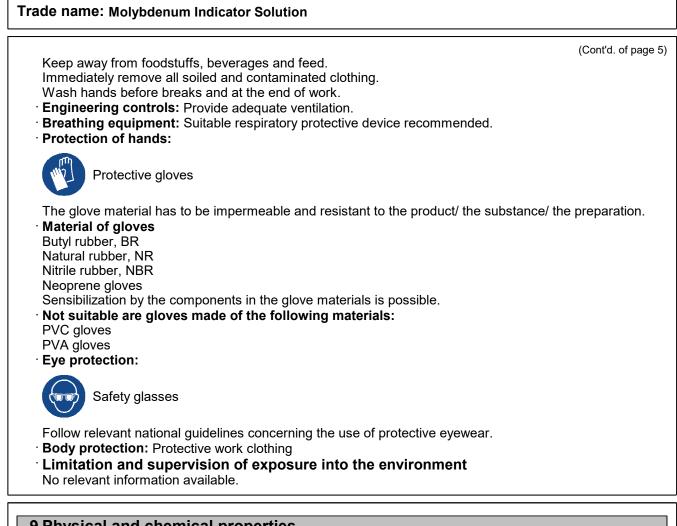
• **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

### <sup>•</sup> Control parameters

· Components w	rith limit values that require monitoring at the workplace:	
64-17-5 Ethano	I	
PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm	
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm	
TLV (USA)	Short-term value: 1880 mg/m³, 1000 ppm	
EL (Canada)	Short-term value: 1000 ppm	
EV (Canada)	Long-term value: 1,900 mg/m³, 1,000 ppm	
LMPE (Mexico)	Long-term value: 1000 ppm A3	
67-56-1 Methan	lol	
PEL (USA)	Long-term value: 260 mg/m³, 200 ppm	
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin	
EV (Canada)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
LMPE (Mexico)	Short-term value: 250 ppm Long-term value: 200 ppm PIEL, IBE	
-	h biological limit values:	
67-56-1 Methan		
Time	ng/L ium: urine e: end of shift ameter: Methanol (background, nonspecific)	
	ntrols tive and hygienic measures: nutionary measures for handling chemicals should be followed.	(Cont'd. on page 6)

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



Information on basic physical a	and chemical properties	
Appearance:	• •	
Form:	Liquid	
Color:	Clear	
Odor:	Alcohol-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	64.7 °C (148.5 °F)	
Flash point:	13 °C (55.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	425 °C (797 °F)	
Decomposition temperature:	Not determined.	
		(Cont'd. on page

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

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	(Cont'd. of page
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
· Explosion limits	
Lower:	3.5 Vol %
Upper:	44 Vol %
<ul> <li>Oxidizing properties:</li> </ul>	Not determined.
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
· Density at 20 °C (68 °F):	0.79 g/cm³ (6.59 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/wate	er): Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
<sup>·</sup> 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

Reacts violently with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Highly flammable liquid and vapor.

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

### <sup>·</sup> Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· Incompatible materials No relevant information available.

### <sup>·</sup> Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

## 11 Toxicological information

Information on toxicological effects
 Acute toxicity:

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Toxic in contact with skin.	
Toxic if inhaled.	
Toxic if swallowed.	
LD/LC50 values that are relevant for classification:	
64-17-5 Ethanol	
Oral LD50 7060 mg/kg (rat)	
Inhalative LC50/4h 20000 mg/l (rat)	
Primary irritant effect:	
On the skin:	
Causes mild skin irritation.	
Based on available data, the classification criteria are not met.	
On the eye: Causes eye irritation.	
Sensitization: Based on available data, the classification criteria are not met.	
IARC (International Agency for Research on Cancer):	
64-17-5 Ethanol	
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): Toxic if swallowed, in contact with skin or if inhaled.	
Causes serious eye irritation.	
Causes mild skin irritation.	
Causes damage to the central nervous system and optic nerve.	
Repeated dose toxicity: No relevant information available.	
Germ cell mutagenicity: Based on available data, the classification criteria are not	t met.
<b>Carcinogenicity:</b> Based on available data, the classification criteria are not met.	
Reproductive toxicity: Based on available data, the classification criteria are not n	
STOT-single exposure: Causes damage to the central nervous system and optic i	
STOT-repeated exposure: Based on available data, the classification criteria are r	not met.
• Aspiration hazard: Based on available data, the classification criteria are not met.	

• **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:

(Cont'd. on page 9)

	(Cont'd. of page
Do not allow product to reach ground wate Danger to drinking water if even small qua	r, water course or sewage system.
• Other adverse effects No relevant info	
Disposal considerations	
Waste treatment methods	
• Recommendation: Must not be disposed of together with hour	sehold garbage. Do not allow product to reach sewage system
The user of this material has the respons	ibility to dispose of unused material, residues and containers
	d federal laws and regulations regarding treatment, storage a wastes. Residual materials should be treated as hazardous.
·	wastes. Residual materiais should be iteated as hazaluous.
<ul> <li>Uncleaned packagings</li> <li>Recommendation: Disposal must be made</li> </ul>	de according to official regulations.
· Recommended cleansing agent: Water,	
Transport information	
UN-Number	
· DOT, ADR/RID/ADN, IMDG, IATA	UN1986
UN proper shipping name	
· DOT, ADR/RID/ADN, IMDG, IATA	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S
	(ETHANOL (ETHYL ALCOHOL), METHANOL)
Transport hazard class(es)	
DOT	
· DOT	
	3
· DOT · Class · Label	3 3, 6.1
Class	
· Class · Label	
· Class · Label	
Class Class Label ADR/RID/ADN Class	3, 6.1
Class Class Label ADR/RID/ADN Class Class	3, 6.1 3 (FT1)
Class · Label · ADR/RID/ADN · Class · Class · Label	3, 6.1
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	(Cont'd. of page
·Label	3/6.1
·IATA	
· Class · Label	3 3 (6.1)
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	II
Environmental hazards	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Safety, health and environmental regula mixture	tions/legislation specific for the substance of
mixture United States (USA) SARA	
<ul> <li>Safety, health and environmental regula mixture</li> <li>United States (USA)</li> <li>SARA</li> <li>Section 302 (extremely hazardous substances)</li> </ul>	
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### 67-56-1 Methanol

## · EPA (Environmental Protection Agency):

None of the ingredients are listed.

#### · IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

#### Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### • Abbreviations and acronyms:

Website: www.chemtel.com

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573