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| Product identi | fier |
|---|--|
| • Trade name: <u>Mo</u> • Product code: D • CAS Number: 74 | |
| · Recommended | use and restriction on use use: Laboratory chemicals use: No relevant information available. |
| Details of the s Manufacturer/Su AquaPhoenix Sci 860 Gitts Run Ro Hanover, PA 173 Tel +1 (717)632- Toll-Free: (866)60 info@aquaphoen Distributor: Dubois Chemical 3630 East Kemp Cincinnati, OH 4 (800) 438-2647 Emergency telep ChemTel Inc. (800)255-3924 (1 +1 (813)248-058 | entific, Inc. ad 31 USA 1291 32-1291 ixsci.com s Inc. per Rd, 15241 phone number: North America) |
| 2 Hazard(s) ide | ntification |
| | of the substance or mixture |
| | 0 Causes eve irritation. |
| | ents assified and labeled according to the Globally Harmonized System (GHS). ms: Not regulated. arning |
| H320 Causes eye | |
| · Precautionary s | tatements: |
| | Wash thoroughly after handling. 8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| · Other hazarde | There are no other hazards not otherwise classified that have been identified. |

[•] Chemical characterization: Substances

(Cont'd. on page 2)

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

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(Cont'd. of page 1)

| · Components: | | | | |
|---------------|-----------------------|---------------------|------|--|
| 7447-40-7 | Potassium chloride | Eye Irrit. 2B, H320 | >99% | |
| 538-62-5 | 1,5-diphenylcarbazone | | <1% | |

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:

Brush off loose particles from skin.

Wash with soap and 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:

Causes eye irritation.

Gastric or intestinal disorders when ingested.

· Danger: May be harmful if swallowed.

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 No relevant information available.

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.

For large spills, wear protective clothing.

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

(Cont'd. on page 3)

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

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(Cont'd. of page 2)

Pick up mechanically. 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

- · Precautions for safe handling: Use only in well ventilated areas.
- · 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: Store away from foodstuffs.
- Further information about storage conditions:

Keep containers tightly sealed.

Store in dry conditions.

This product is hygroscopic.

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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands:



Protective gloves

Material of gloves

Nitrile rubber, NBR Natural rubber, NR Butyl rubber, BR Neoprene gloves Sensibilization by the components in the glove materials is possible. **Eve protection:**

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. · Body protection: Protective work clothing Protection may be required for spills.

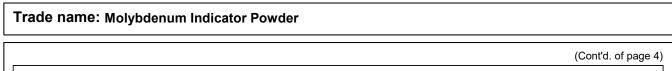
Limitation and supervision of exposure into the environment

No relevant information available.

| Physical and chemical properties | | |
|---|---|------------------|
| Information on basic physical an Appearance: | d chemical properties | |
| Form: | Crystalline powder | |
| Color: | White | |
| · Odor: | Odorless | |
| · Odor threshold: | Not determined. | |
| · pH-value: | Not applicable. | |
| Melting point/Melting range: | 760-780 °C (1400-1372 °F) | |
| Boiling point/Boiling range: | Not determined. | |
| · Flash point: | The product is not flammable. | |
| · 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: | Not determined. | |
| · Density at 20 °C (68 °F): | >1.97 g/cm³ (>16.44 lbs/gal) | |
| · Relative density: | Not determined. | |
| · Vapor density: | Not applicable. | |
| Evaporation rate: | Not applicable. | |
| · Solubility in / Miscibility with | | |
| Water: | Soluble. | |
| · Partition coefficient (n-octanol/water |): Not determined. | |
| ·Viscosity | | |
| Dynamic: | Not applicable. | |
| Kinematic: | Not applicable. | |
| | | (Cont'd. on page |

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

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[•] 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 with strong acids.

Contact with acids releases toxic gases.

• Conditions to avoid No relevant information available.

· Incompatible materials No relevant information available.

· Hazardous decomposition products Possible in traces.

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 2200-2900 mg/kg (rat)

7447-40-7 Potassium chloride

Oral LD50 2,600 mg/kg (rat)

Primary irritant effect:

On the skin:

Causes mild skin irritation.

Based on available data, the classification criteria are not met.

· On the eye: Irritating effect.

• 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.

 \cdot Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes.

(Cont'd. on page 6)

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

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(Cont'd. of page 5)

May be harmful if swallowed.

· Repeated dose toxicity: No relevant information available.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- \cdot STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

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:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects No relevant information available.

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.

| Not regulated. | |
|----------------|----------------|
| Not regulated. | |
| | |
| Not regulated. | |
| - | Not regulated. |

| ade name: Molybdenum Indicator Powder | |
|---|--|
| | |
| | (Cont'd. of pa |
| 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 MARPOL73/78 and the IBC Code | II of Not applicable. |
| Regulatory information | |
| Safety, health and environmental re mixture United States (USA) SARA | gulations/legislation specific for the substance |
| Section 302 (extremely hazardous substa | nces): |
| None of the ingredients are listed. | |
| Section 313 (Specific toxic chemical listin | igs): |
| None of the ingredients are listed. | |
| TSCA (Toxic Substances Control Act) | |
| 7447-40-7 Potassium chloride | |
| 538-62-5 1,5-diphenylcarbazone | |
| · Proposition 65 (California) | |
| · Chemicals known to cause cancer: | |
| None of the ingredients are listed. | |
| · Chemicals known to cause developmenta | I toxicity for females: |
| None of the ingredients are listed. | |
| · Chemicals known to cause developmenta | I toxicity for males: |
| None of the ingredients are listed. | |
| Chemicals known to cause developmenta | Il toxicity: |
| None of the ingredients are listed. | |
| · EPA (Environmental Protection Agency): | |
| None of the ingredients are listed. | |
| · IARC (International Agency for Research | on Cancer): |
| None of the ingredients are listed. | |
| · 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 (Cont'd. on page 8)

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| Tra | ade name: Molybdenum Indicator Powder |
|-----|--|
| | (Cont'd. of page 7) specific product features and shall not establish a legally valid contractual relationship. |
| | Abbreviations and acronyms: 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 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B 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 |
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