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1 Identification

· Product identifier

- · Trade name: Moly Coat
- · Product code: 4019598
- · Recommended use and restriction on use
- Recommended use: Laboratory chemicals • Restrictions on use:
- No relevant information available. Contact manufacturer/supplier
- Details of the supplier of the Safety Data Sheet
 Manufacturer/Supplier:
 AquaPhoenix Scientific, Inc.
 860 Gitts Run Road
 Hanover, PA 17331
 Phone: (717)632-1291
 Toll-Free: (866)632-1291
 info@aguaphoenixsci.com
- Emergency telephone number: ChemTel Inc.
 (800)255-3924 (North America)
 +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms:



- · Signal word: Warning
- · Hazard statements:
- H317 May cause an allergic skin reaction.
- · Precautionary statements:
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves and eye protection.
- P302+P352 If on skin: Wash with plenty of water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards There are no other hazards not otherwise classified that have been identified.

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3 Composition/information on ingredients

· Chemical characterization: Substances

· Components:

90-30-2	N-1-naphthylaniline	STOT RE 2, H373 Acute Tox. 4, H302; Skin Sens. 1, H317	<1%
7632-00-0	Sodium nitrite	Ox. Sol. 3, H272 Acute Tox. 3, H301	<1%
115-77-5	pentaerythritol		<1%
1317-33-5	Molybdenum disulphide		>97%

4 First-aid measures

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Wash with soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

- · 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: Allergic reactions

Gastric or intestinal disorders when ingested.

- **Danger:** Sensitizing effect by skin contact is possible with prolonged exposure.
- Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 48 hours. Treat skin and muccus membrane with antihistamine and corticoid proparations
- Treat skin and mucous membrane with antihistamine and corticoid preparations.
- Contains N-1-naphthylaniline. May produce an allergic reaction.

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
- 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.

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6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
- · 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 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.
- Do not store together with acids.
- Store away from oxidizing agents.
- Further information about storage conditions: Keep containers tightly sealed.
- **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:

1317-33-5 Molybdenum disulphide	
PEL (USA)	Long-term value: 15* mg/m ³ *Total dust, as Mo
TLV (USA)	Long-term value: 10* 3** mg/m ³ as Mo; *inhalable fraction ** respirable fraction
EL (Canada)	Long-term value: 3* 10** mg/m³ as Mo; *respirable **inhalable
LMPE (Mexico)	Long-term value: 10* 3** mg/m³ *fracción inhalable **respirable; como Mo
115-77-5 penta	erythritol
PEL (USA)	Long-term value: 15* 5** mg/m ³
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	*total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m ³	
	*total dust **respirable fraction	
TLV (USA)	Long-term value: 10 mg/m ³	
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust, **respirable fraction	
EV (Canada)	Long-term value: 10 mg/m ³ total dust	
LMPE (Mexico)) Long-term value: 10 mg/m³	
 Exposure controls General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Engineering controls: Provide adequate ventilation. Breathing equipment: Not required under normal conditions of use. Protection of hands: Waterial of gloves Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR Eye protection: Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. Body protection: Protective work clothing Limitation and supervision of exposure into the environment 		
	ormation available.	
9 Physical and	d chemical properties	
· Information o	on basic physical and chemical properties	
· Appearance:		
Form:	Solid	
Color:	According to product specification	
. Odor	Characteristic	11

Characteristic

Not determined.

· Odor:

· Odor threshold:

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· pH-value:	Not applicable.	
· Melting point/Melting range: · Boiling point/Boiling range:	Not determined. 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:	Non-oxidizing.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/water)	: Not determined.	
· Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· 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 and oxidizing agents.

- Toxic fumes may be released if heated above the decomposition point.
- · Conditions to avoid No relevant information available.
- Incompatible materials Acids.
- Oxidizing agents.
- Hazardous decomposition products Sulfur oxides (SOx) Nitrogen oxides (NOx) Metal oxide smoke.

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11 Toxicological information

· Information on toxicological effects

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

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 >8500 mg/kg (rat)

90-30-2 N-1-naphthylaniline

Oral LD50 1625 mg/kg (rat)

7632-00-0 Sodium nitrite

Oral LD50 85 mg/kg (rat)

Primary irritant effect:

- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- Sensitization: Sensitization possible through skin contact.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

• NTP (National Toxicology Program):

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

- · Probable route(s) of exposure:
- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.
- Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
- Repeated dose toxicity: Sensitizing effect by skin contact is possible with prolonged exposure.
- 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.
- 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.

2 Ecological information	
· Toxicity	
· Aquatic toxicity	
90-30-2 N-1-naphthylaniline	
LC50 0.44 mg/l (Oncorhynchus mykiss)	
 Persistence and degradability No relevant information available. Bioaccumulative potential: No relevant information available. Mobility in soil: No relevant information available. 	

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· Additional ecological information

· General notes:

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

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Harmful to aquatic organisms

· Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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.

14 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
 · UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA 	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
 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 	k II of Not applicable.	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

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· Section 302 (extremely hazardous substances):

Substance is not listed.

· Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

7632-00-0 Sodium nitrite

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

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: 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 Ox. Sol. 3: Oxidizing solids - Category 3 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Sens. 1: Skin sensitisation - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 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)

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(Cont'd. of page 8) 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902

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