

Safety Data Sheet

BNM
Never-Seez Black Moly

Revision Date 23-Oct-2014
Supersedes Date: No information available
Version 1.01

Precautionary Statements - Disposal

Not Applicable

Hazards Not Otherwise Classified (HNOC)

Not Applicable

Unknown Toxicity

3.25% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Molybdenum(IV) sulfide	1317-33-5	10 - 30
Zinc oxide	1314-13-2	5 - 10

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First Aid Measures

4.1. Description of First Aid Measures

General Advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
Eye Contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
Skin Contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.
Self-protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

4.4. Reference to Other Sections

Reference to Other Sections SECTION 8: Exposure Controls/Personal Protection
SECTION 11: Toxicological Information

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SECTION 5: Fire Fighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media

Dry chemical, CO₂, water spray or regular foam. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal.

Unsuitable Extinguishing Media

Do not scatter spilled material with high pressure water streams.

5.2. Special Hazards Arising from the Substance or Mixture

Specific Hazards Arising from the Chemical

Some may burn but none ignite readily. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Some may be transported hot.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

5.3. Advice for Firefighters

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Do not touch or walk through spilled material. Stop leak if you can do it without risk. Avoid inhalation of asbestos dust.
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6.2. Environmental Precautions

Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas.
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6.3. Methods and Material for Containment and Cleaning up

Methods for Containment	Prevent dust cloud.
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Methods for Cleaning up	Cover liquid spill with sand, earth or other non-combustible absorbent material. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Cover powder spill with plastic sheet or tarp to minimize spreading.
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6.4. References to Other Sections

Reference to Other Sections	SECTION 8: Exposure Controls/Personal Protection SECTION 7: Handling and Storage SECTION 13: Disposal Considerations
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SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

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Advice on Safe Handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible Materials None known based on information supplied.

7.3. Specific End Use(s)

Other Information No information available.

7.4. References to Other Sections

Reference to Other Sections SECTION 13: Disposal Considerations
SECTION 10: Stability and Reactivity

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Molybdenum(IV) sulfide 1317-33-5	TWA: 10 mg/m ³ Mo inhalable fraction TWA: 3 mg/m ³ Mo respirable fraction	IDLH: 5000 mg/m ³ Mo	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Zinc oxide 1314-13-2	STEL: 10 mg/m ³ respirable fraction TWA: 2 mg/m ³ respirable fraction	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust TWA: 5 mg/m ³ dust and fume STEL: 10 mg/m ³ fume	TWA: 5 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 5 mg/m ³ TWA: 10 mg/m ³ STEL: 10 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Molybdenum(IV) sulfide 1317-33-5	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-	TWA: 8 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³
Zinc oxide 1314-13-2	TWA: 5 mg/m ³ TWA: 10 mg/m ³ STEL: 10 mg/m ³	-	TWA: 4 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³

8.2. Exposure Controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Personal protective equipment [PPE]

Eye/Face Protection

Tight sealing safety goggles.

Skin and Body Protection

Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

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Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Physical State	Solid
Appearance	Paste
Color	Grey
Odor	Petroleum
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	No information available	
Flash Point	246 °C / 474.8 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper Flammability Limits	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

9.2. Other Information

Softening Point	No information available
Molecular Weight	No information available
Solvent Content (%)	No information available
Solid Content (%)	100.0
Density	1.240 g/cm ³
VOC	No information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

None under normal use conditions.

10.2. Chemical Stability

Stable under recommended storage conditions.

10.3. Possibility of Hazardous Reactions

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None under normal processing.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

None known based on information supplied.

10.6. Hazardous Decomposition Products

None known based on information supplied.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Product Information	No data available
Inhalation	No data available.
Eye Contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Molybdenum(IV) sulfide 1317-33-5	-	-	> 2820 mg/m ³ (Rat) 4 h
Zinc oxide 1314-13-2	> 5000 mg/kg (Rat)	-	-

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Symptoms	No information available.
Skin Corrosion/Irritation	No information available.
Serious Eye Damage/Eye Irritation	No information available.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
Teratogenicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Chronic Toxicity	No information available.
Target Organ Effects	Respiratory system.
Aspiration Hazard	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

SECTION 12: Ecological Information

12.1. Toxicity

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Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Zinc oxide 1314-13-2		LC50 (96h) =0.7 mg/L Fish (Danio rerio)		

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulative Potential

No information available.

12.4. Mobility in Soil

No information available.

12.5. Results of PBT and vPvB Assessment

No information available.

12.6. Other Adverse Effects

No information available

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Contaminated Packaging

Dispose of in accordance with federal, state and local regulations

SECTION 14: Transport Information

DOT Not regulated

IATA Not regulated

IMDG Not regulated

SECTION 15: Regulatory Information

Global Inventories

<u>TSCA</u>	Listed
<u>DSL</u>	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No
Zinc oxide	1314-13-2

California Proposition 65

This product does not contain one or more substances listed on Proposition 65 at or above 0.01 wt. %.

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain a substance(s) on the SVHC as proposed by ECHA above a concentration of 0.1 wt. %

SECTION 16: Other Information

HMIS **Health Hazards** 1 **Flammability** 1 **Physical Hazards** 0 **Personal Protection** X

Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet

No information available

Key Literature References and Sources for Data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision Date 23-Oct-2014

Revision Note Not Applicable.

Training Advice No information available

Further Information No information available

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End of Safety Data Sheet