

SAFETY DATA SHEET
Copper Seal II

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Revision: 10/29/2024
Supersedes Revision: 10/19/2023

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA HCS 2015; and Canadian WHMIS 2015.

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 221
Product Name: Copper Seal II
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
Company Name: Balmar, LLC
616 W. Pont Des Mouton Rd.
Lafayette, LA 70507-4002 United States of America
Phone Number: (337)232-2496
Email address: Info@oilcenter.com
- 1.4 Emergency telephone number:**
Emergency Contact: CHEMTREC
Norwegian Poison Information Centre
01 (703)527-3887
(472)259-1300

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
Specific Target Organ Toxicity (single exposure), Category 3
Aquatic Toxicity (Chronic), Category 4

2.2 Label Elements:



GHS Signal Word: Warning

Hazard-determining components of labelling:

Copper

GHS Hazard Phrases:

H336 - May cause drowsiness or dizziness.

H413 - May cause long lasting harmful effects to aquatic life.

GHS Precautionary Phrases:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P273 - Avoid release to the environment.

GHS Response Phrases:

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

GHS Storage and Disposal Phrases:

P501 - Dispose of contents/container to in accordance with federal regulations.

UFI:

- 2.3 Adverse Human Health** Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney
Effects and Symptoms: damage.

- 2.3.1 Inhalation:** The toxicological properties of this substance have not been fully investigated. No hazard expected in normal industrial use.
May cause respiratory tract irritation. May be harmful if inhaled.
- 2.3.2 Skin Contact:** May cause skin irritation. May be harmful if absorbed through the skin. The toxicological properties of this material have not been fully investigated.
- 2.3.3 Eye Contact:** May cause eye irritation. The toxicological properties of this material have not been fully investigated.

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2.3.4 Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Section 3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
14807-96-6	Talcum 01-2120140278-58	20.0 - 30.0 %	238-877-9 NA	No GHS classifications apply.
7782-42-5	(Trade Secret) 01-2119486977-12	10.0 - 20.0 %	231-955-3 NA	No GHS classifications apply.
7727-43-7	Barium sulfate 01-2119491274-35	5.00 - 15.0 %	231-784-4 NA	No GHS classifications apply.
7440-50-8	Copper 01-2119480154-42	5.00 - 10.0 %	231-159-6 NA	Skin Sens. 1A: H317 STOT (SE) 1: H370 STOT (SE) 3: H335 H336
1317-33-5	Molybdenum disulfide na	1.00 - 5.00 %	215-263-9 NA	No GHS classifications apply.

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of Inhalation: If not breathing, give artificial respiration. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

In Case of Skin Contact: Get medical aid if irritation develops or persists. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

In Case of Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

4.2 Important Symptoms and Effects, Both Acute and Delayed:

Inhalation is unlikely under normal condition but in the event vapors are produced inhalation of vapors may cause: chills, dry throat, sweet taste, Fever, Cough, Nausea, Vomiting, Weakness.

Note for the Doctor: Individuals with Wilson's disease are more susceptible to chronic copper poisoning. Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

5.2 Flammable Properties and Hazards: No data available.

No data available.

Flash Point: > 204 C (400 F) Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions:

Wear self contained breathing apparatus for fire fighting if necessary. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or

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equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Material will not burn. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Section 6. Accidental Release Measures

6.1 **Protective Precautions,** No data available.

**Protective Equipment
and Emergency
Procedures:**

6.2 **Environmental Precautions:** No data available.

6.3 **Methods and Material For Containment and Cleaning Up:** Personal precautions.
Environmental precautions.
Do not let product enter drains.
Methods for cleaning up.
Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Sweep up, then place into a suitable container for disposal. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Do not let this chemical enter the environment.

Section 7. Handling and Storage

7.1 **Precautions To Be Taken in Handling:** Normal measures for preventive fire protection. Avoid ingestion and inhalation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

7.2 **Precautions To Be Taken in Storing:** Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
14807-96-6	Talcum	ACGIH TLV	TLV: 2 mg/m ³ (non-asbestos)	
		OSHA PELs	PEL: 706 ppm/20 mppcf	
		Britain EH40	TWA: 1 mg/m ³ () STEL: ()	
7782-42-5	(Trade Secret)	ACGIH TLV	TWA: 2 mg/m ³ (resp. except fibers)	
		France VL	TWA: 2 mg/m ³	
		OSHA PELs	PEL: 532.5 ppm/15 mppcf	
7727-43-7	Barium sulfate	ACGIH TLV	TLV: 10 mg/m ³	
		OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m ³	
		Britain EH40	TWA: 10. mg/m ³ (Inhalable dust)	
7440-50-8	Copper	ACGIH TLV	TLV: 0.2 mg/m ³ (fume) 1 mg/m ³	
		France VL	TWA: 0.2 mg/m ³ (Fume)	
		OSHA PELs	PEL: 0.1 (fume)/ 1.0	
		Britain EH40	TWA: 0.2 mg/m ³ (Fume)	
1317-33-5	Molybdenum disulfide	France VL	TWA: 5 mg/m ³ STEL: 10 mg/m ³	

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8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.2.2 Personal protection equipment:

Personal Protective Equipment Symbols:



Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves.

Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respiratory Equipment (Specify Type): is not required under normal operating conditions. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Work/Hygienic/Maintenance Practices: General industrial hygiene practice.

No data available.

Exposure Scenarios: No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: ☐ Gas ☐ Liquid ☒ Solid

Appearance and Odor: Paste.
Mild Petroleum.

Appearance: Copper.

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Point: > 204 C (400 F) Estimate

Evaporation Rate: No data.

Saturated Vapor Concentration: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure: No data.

No data.

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Vapor Density (vs. Air=1):	No data.
Specific Gravity (Water=1):	1.23 at 25.0 C (77.0 F)
Density:	10.25 LB/GAL at 25.0 C (77.0 F)
Solubility in Water:	< 1 at 25.0 C (77.0 F)
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Information with regard to
primary physical hazard:

9.2.2 Other safety characteristics

Section 10. Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [] Stable [X]
10.3 Conditions To Avoid -	No data available.
Hazardous Reactions:	
Possibility of	Will occur [] Will not occur [X]
Hazardous Reactions:	
10.4 Conditions To Avoid -	Avoid moisture. Incompatible materials, Moisture, Strong oxidants.
Instability:	
10.5 Incompatibility -	acids, Strong bases, chlorides, fluorine, nitrates, carbon disulfide, Liquid copper explodes
Materials To Avoid:	on contact with water. Reacts violently with ammonium nitrate, bromates, iodates, chlorates, ethylene oxide, hydrazoic acid, potassium dioxide, dimethyl sulfoxide + trichloroacetic acid, sodium peroxide, sodium azide, Sulfuric acid, hydrogen sulfide + air, and lead azide. Ignites on contact with chlorine, fluorine (above 121C), chlorine trifluoride, and hydrazinium nitrate (above 70C). Incompatible with 1-bromo-2-propyne, and actylenic compounds. Strong oxidizing agents, Aluminum + heat. Hydrogen peroxides, potassium nitrate).
10.6 Hazardous Decomposition or Byproducts:	Zinc/zinc oxides, Zinc oxide fumes. copper fumes. Carbon monoxide, oxides of sulfur, barium fume. hydrogen sulfide, oxides of molybdenum.

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Section 11. Toxicological Information

11.1 Information on Toxicological Effects: Epidemiology: No data available.
Teratogenicity: Experimental studies show teratogenic effects in laboratory animals.
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: No information found.
Teratogenicity: No information available. No information available.

Carcinogenicity/Other Information: CAS# 7440-50-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7782-42-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7727-43-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 1317-33-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

11.2 Information on other hazards: No data available.

CAS #	Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
14807-96-6	Talcum	n.a.	3	n.a.	n.a.
7782-42-5	(Trade Secret)	n.a.	n.a.	n.a.	n.a.
7727-43-7	Barium sulfate	n.a.	n.a.	n.a.	n.a.
7440-50-8	Copper	n.a.	n.a.	n.a.	n.a.
1317-33-5	Molybdenum disulfide	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

12.1 Toxicity: Elimination information (persistence and degradability)
Bioaccumulation Gasterosteus aculeatus - 25 h.
Environmental: Inorganic borates are a water-soluble white powder that may, at high concentrations, cause damage to trees or vegetation by root absorption. No information reported.
Physical: No information available.
Other: None.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Endocrine disrupting properties: No data available.

12.7 Other adverse effects: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal

Product.

Method:

Observe all federal, state, and local environmental regulations.

Contaminated packaging.

Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: NOT REGULATED .

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.

UN Number:

Hazard Class:

TDG Classification:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: No information available.

UN Number:

Hazard Class:

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: NOT REGULATED .

UN Number:

Hazard Class:

Packing Group:

Marine Pollutant:

No

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: NOT REGULATED .

UN Number:

Hazard Class:

Packing Group:

Section 15. Regulatory Information

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

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
14807-96-6	Talcum	No	No	No
7782-42-5	(Trade Secret)	No	No	No
7727-43-7	Barium sulfate	No	No	Yes-Cat. N040
7440-50-8	Copper	No	Yes NA	Yes-Cat. N100
1317-33-5	Molybdenum disulfide	No	No	No

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This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

☐ Yes ☒ No Explosive	☐ Yes ☒ No Acute toxicity (any route of exposure)
☐ Yes ☒ No Flammable (gases, aerosols, liquid, or solid)	☐ Yes ☒ No Skin Corrosion or Irritation
☐ Yes ☒ No Oxidizer (liquid, solid or gas)	☐ Yes ☒ No Serious eye damage or eye irritation
☐ Yes ☒ No Self-reactive	☐ Yes ☒ No Respiratory or Skin Sensitization
☐ Yes ☒ No Pyrophoric (liquid or solid)	☐ Yes ☒ No Germ cell mutagenicity
☐ Yes ☒ No Pyrophoric gas	☐ Yes ☒ No Carcinogenicity
☐ Yes ☒ No Self-heating	☐ Yes ☒ No Reproductive toxicity
☐ Yes ☒ No Organic peroxide	☒ Yes ☐ No Specific target organ toxicity (single or repeated exposure)
☐ Yes ☒ No Corrosive to metal	☐ Yes ☒ No Aspiration Hazard
☐ Yes ☒ No Gas under pressure (compressed gas)	☐ Yes ☒ No Simple Asphyxiant
☐ Yes ☒ No In contact with water emits flammable gas	☒ Yes ☐ No (Health) Hazard Not Otherwise Classified (HNOC)
☐ Yes ☒ No Combustible Dust	
☐ Yes ☒ No (Physical) Hazard Not Otherwise Classified (HNOC)	

CAS #	Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
14807-96-6	Talcum	No	No	Yes
7782-42-5	(Trade Secret)	No	No	Yes
7727-43-7	Barium sulfate			Yes
7440-50-8	Copper	Yes - Cat.		Yes
1317-33-5	Molybdenum disulfide			Yes

CAS #	Components (Chemical Name)	Other US EPA or State Lists
14807-96-6	Talcum	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - 4203; NY Part 597: No; PA HSL: Yes - 1
7782-42-5	(Trade Secret)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1
7727-43-7	Barium sulfate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - 1
7440-50-8	Copper	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: Yes - 0528; NY Part 597: Yes: HS; PA HSL: Yes - E
1317-33-5	Molybdenum disulfide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; NY Part 597: No; PA HSL: No

CAS #	Components (Chemical Name)	International Regulatory Lists
14807-96-6	Talcum	New Zealand IOC: Yes; REACH: Yes - (P), 01-2120140278-58: Full
7782-42-5	(Trade Secret)	New Zealand IOC: Yes; REACH: Yes - (P), 01-2119486977-12: Full
7727-43-7	Barium sulfate	New Zealand IOC: Yes; REACH: Yes - (P), 01-2119491274-35: Full
7440-50-8	Copper	New Zealand IOC: Yes; REACH: Yes - (P), 01-2119480154-42: Full
1317-33-5	Molybdenum disulfide	New Zealand IOC: Yes; REACH: Yes - (P)

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15.2 Chemical Safety

Assessment:

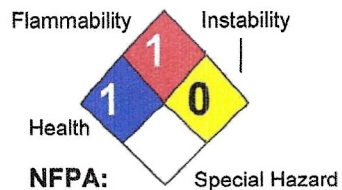
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Hazard Rating System:

HEALTH		1
FLAMMABILITY		1
PHYSICAL		0
PPE		B

HMIS:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information contained here is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product with zero or minimum hazards. Our products are improved daily as up-to-date information and research data is recieved from our suppliers in our quest to use products with less or no hazards. Please feel free to contact us for current information.

