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<b>Trade name:</b>	<b>Noalox® Anti Oxidant</b>
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### SECTION 1: Identification

**Product identifier:** Noalox® Anti Oxidant.  
**Synonyms:** None available.  
**Product Code Number:** 30-024, 30-026, 30-030, 30-031, 30-032, 30-040.  
**SDS number:** ID019  
**Recommended use:** Anti oxidant.  
**Recommended restrictions:** Uses other than those recommended.

**Manufacturer/Importer/Supplier/Distributor information:**

**Company Name:** IDEAL INDUSTRIES, INC.  
**Company Address:** Becker Place,  
Sycamore, IL 60178  
**Company Telephone:** Office hours (Mon – Fri)  
7AM - 5 PM (CDT)  
(815)895-5181  
**Company Contact Email:** IDEAL@IDEALINDUSTRIES.COM  
**Emergency phone number:** 24 HOUR EMERGENCY NUMBER:  
(815)895-5181.

### SECTION 2: Hazard(s) identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200:**

***Physical hazards***

Not classified as a physical hazard under GHS criteria.

***Health hazards***

Not classified as a physical hazard under GHS criteria.

***Environmental hazards***

Not classified as a physical hazard under GHS criteria.

**GHS Signal word:** Not applicable.

**GHS Hazard statement(s):** Not applicable.

**GHS Hazard symbol(s):** Not applicable

**GHS Precautionary statement(s):**

- Prevention:** No prevention precautionary statements required.
- Response:** No response precautionary statements required.
- Storage:** No storage precautionary related statements required.
- Disposal:** No disposal precautionary statements required.

**Hazard(s) not otherwise  
Classified (HNOC):**

None known.

**Percentage of ingredient(s) of unknown acute toxicity:**  
Not applicable.

**SECTION 3: Composition/information on ingredients**

**Mixture:**

<b>Chemical name</b>	<b>CAS#</b>	<b>Concentration (weight %)</b>
Zinc Dust	7440-66-6	15 - 20 %
Hydrophillic Fumed Silica	7631-86-9	1 – 5%

Note: The balance of the ingredients are not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**SECTION 4: First-aid Measures**

**Description of necessary measures:**

**Inhalation:** If inhaled, move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

**Skin contact:** Immediately remove excess chemical and contaminated clothing; thoroughly wash contaminated skin with mild soap and water. If irritation persists after washing seek medical attention. Clean contaminated clothing before reuse.

**Eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

**Ingestion:** Induce vomiting and consult physician or local poison control center.

**Most important symptoms/effects, acute and delayed:** None expected.

**Indication of immediate medical attention and special treatment needed:** If any symptoms are observed, contact a physician and give them this SDS sheet. If exposed or concerned: Get medical advice/attention.

#### **SECTION 5: Fire-fighting measures**

**Suitable extinguishing media:** Use dry chemical, carbon dioxide or foam.

**Unsuitable extinguishing media:** Do not use water. Water reacts with zinc dust.

**Specific hazards arising from the chemical:** Water or foam may cause a frothing reaction. Combustion products - Carbon monoxide, Carbon dioxide.

**Special protective equipment and precautions for fire-fighters:** For fire involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Use self-contained breathing apparatus with full face shield to protect against the hazardous effects of combustion products and oxygen deficiencies. Keep fire exposed containers cool with water.

#### **SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Methods and material for containment and cleaning up:**

Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some material, even in small quantities; may present a slip hazard. Observe all personal protection equipment recommendations.

#### **SECTION 7: Handling and Storage**

**Precautions for safe handling:** Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

**Conditions for safe storage, including any incompatibles:** Keep away from children, infants and pets. Keep in dry location. Keep container(s) tightly closed and properly labeled. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Store in dry conditions at temperatures between 40 - 120 F.

"Empty" containers retain residue and may be dangerous. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**SECTION 8: Exposure controls/personal protection**

**Control Parameters:**

**Occupational exposure limits:**

<b>US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits</b>		
<b>Substance</b>	<b>PEL-TWA (8 hour)</b>	<b>PEL-STEL (15 min)</b>
Zinc Dust	No data available	No data available
Hydrophillic Fumed Silica	80 mg/m <sup>3</sup> /(% SiO <sub>2</sub> )	No data available

<b>US ACGIH Threshold Limit Values</b>		
<b>Substance</b>	<b>TLV-TWA (8 hour)</b>	<b>TLV-STEL (15 min)</b>
Zinc Dust	No data available	No data available
Hydrophillic Fumed Silica	No data available	No data available

<b>NIOSH Exposure Limits</b>		
<b>Substance</b>	<b>TWA</b>	<b>STEL</b>
Zinc Dust	No data available	No data available
Hydrophillic Fumed Silica	6 mg/m <sup>3</sup>	No data available

**Appropriate engineering controls:** General (mechanical) room ventilation is expected to be adequate. Special local ventilation is recommended to keep dust below exposure limits.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** The use of OSHA compliant safety glasses or splash goggles are recommended.

**Skin and Hand protection:** None normally required. Use neoprene gloves if necessary.

**Respiratory protection:** None required

**Other:** An eye fountain in work area is recommended.

**Thermal hazards:** No data available.

**SECTION 9: Physical and chemical properties**

**Appearance**

<b>Physical state:</b>	Paste
<b>Form:</b>	Gray solid paste.
<b>Color:</b>	Gray.
<b>Odor:</b>	Mild odor.
<b>Odor threshold:</b>	No data available
<b>pH:</b>	6.5 – 8.0
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	> 500°F
<b>Flash point:</b>	310°F
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	Not applicable
<b>Flammability limit – upper (%):</b>	Not applicable
<b>Explosive limit – lower (%):</b>	Not applicable
<b>Explosive limit – upper (%):</b>	Not applicable
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Relative Density:</b>	1.04
<b>Solubility(ies):</b>	Moderate.
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Other information:</b>	
<b>% Volatile by volume:</b>	None
<b>Percent solids by weight:</b>	~ 100%

#### SECTION 10: Stability and Reactivity

<b>Reactivity:</b>	Not chemically reactive.
<b>Chemical stability:</b>	Stable under normal ambient and anticipated conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous reactions not anticipated.
<b>Conditions to avoid:</b>	Avoid conditions of moisture or high humidity.
<b>Incompatible materials:</b>	Avoid strong oxidizers, strong acids and water.
<b>Hazardous decomposition Products:</b>	Excessive heat and burning may release oxides of carbon.

#### SECTION 11: Toxicological information

<b>Information on likely routes of exposure:</b>	
<b>Inhalation:</b>	Not an expected route of entry.
<b>Ingestion:</b>	Not an expected route of entry.

**Skin:** Skin contact is a potential route of entry.  
**Eyes:** Not an expected route of entry.

**Symptoms related to the physical, chemical, and toxicological characteristics:**  
None normally expected.

**Delayed and immediate effects and chronic effects from short or long-term exposure:**  
Upon prolonged contact, may cause temporary eye discomfort and damage to organs.

**Numerical measures of toxicity:**

**Ingredient Information:**

Substance	Test Type (species)	Value
Zinc Dust	LD <sub>50</sub> Oral (Rat)	No data available
	LD <sub>50</sub> Dermal (Rabbit)	No data available
	LC <sub>50</sub> Inhalation	No data available
Hydrophilic Fumed Silica	LD <sub>50</sub> Oral (Rat)	3160 mg/kg
	LD <sub>50</sub> Intravenous (Rat)	15 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	> 200 gm/m <sup>3</sup> (1H)

**Product Acute Toxicity Estimates:**

Acute Oral Toxicity – no data available  
Acute Dermal Toxicity - no data available  
Acute Inhalation Toxicity - no data available

**Skin corrosion/irritation:** No information available on the mixture, however none of the components have been classified to cause skin corrosion/irritation (or are below the concentration threshold for classification).

**Serious eye damage/eye irritation:** No information available on the mixture, however none of the components have been classified to cause eye damage/irritation (or are below the concentration threshold for classification).

**Respiratory sensitization:** No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

**Skin sensitization:** No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).

<b>Germ cell mutagenicity:</b>	No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
<b>Carcinogenicity:</b>	No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.
<b>Reproductive toxicity:</b>	No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).
<b>Specific target organ toxicity- Single exposure:</b>	No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).
<b>Specific target organ toxicity- Repeat exposure:</b>	No information available on the mixture, however Hydrophilic Fumed Silica has been classified for STOT RE and may cause damage to organs over prolonged periods.
<b>Aspiration hazard:</b>	No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).
<b>Further information:</b>	No data available.

## **SECTION 12: Ecological information**

### **Ecotoxicity:**

**Product data:** No data available

### **Ingredient Information:**

Substance	Test Type	Species	Value
Zinc Dust	LC <sub>50</sub>	Fish	No data available
	LC <sub>50</sub>	Aquatic crustacea	No data available
	EC <sub>50</sub>	Algae	No data available
Hydrophilic Fumed Silica	LC <sub>50</sub>	Fish	No data available
	LC <sub>50</sub>	Aquatic crustacea	No data available
	EC <sub>50</sub>	Algae	No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other adverse effects:** No data available.

**SECTION 13: Disposal considerations**

**Disposal instructions:**

This product, in its present state, when discarded or disposed of, may be a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties.

**SECTION 14: Transport Information**

**US Department of Transportation Classification (49CFR)**

This material is not classified as dangerous under DOT regulations

**IMDG**

This material is not classified as dangerous under IMDG regulations.

**IATA (Country variations may apply)**

This material is not classified as dangerous under IATA regulations

**Environmental hazards**

Marine pollutant: No.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

No further relevant information available.



**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**  
None.

## **SECTION 15: Regulatory Information**

**Safety, health and environmental regulations specific for the product.**

### **USA:**

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is not hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All substances in this product are listed, as required, on the TSCA inventory.

### **SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:**

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **CERCLA Hazardous Substance List, 40 CFR 302.4:**

None listed.

### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None listed.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** None listed.

### **SARA Title III**

**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None listed.

### **Section 311/312 (40 CFR 370):**

**Acute Health Hazard:** No

**Chronic Health Hazard:** No

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactivity Hazard:** No

### **Section 313 Toxic Release Inventory (40 CFR 372):**

This product contains the following materials that are subject to the reporting requirements of Section 313 of EPCRA: Zinc powder (stabilized).

### **STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):** No components are listed on Prop 65.

**Massachusetts Right to Know:** Zinc powder (stabilized) and Silicon dioxide are listed on the Massachusetts Right to Know List.

**New Jersey Right to Know:** Zinc powder (stabilized) and Silicon dioxide are listed on the New Jersey Right to Know list.

**Pennsylvania Right to Know:** Zinc powder (stabilized) and Silicon dioxide are listed on the Pennsylvania Right to Know List.

**Canada WHMIS Hazard Class:** D2B – Very Toxic Material

**SECTION 16: Other information, including date of preparation or last revision.**

Revision Date: July 05, 2016

To the best of our knowledge, the information contained herein is accurate. However IDEAL INDUSTRIES INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

### Section 1: Information

<b>Product Name</b>	<b>Ox-Gard Anti-Oxidant Compound</b>
<b>Product Code(s)</b>	<b>OX-100B</b>
<b>Recommended Usage</b>	<b>Lubricants, Greases and Release Products, Sealant</b>
<b>Manufacturer/Distributor</b>	<b>Power Products LLC (dba Gardner Bender)</b>
<b>Address</b>	N85 W12545 Westbrook Crossing Menomonee Falls, WI 53051
<b>Website</b>	www.powerprodllc.com
<b>Telephone Number</b>	1-800-624-4320
<b>EMERGENCY Telephone Number</b>	Chemtrec: (24/7) 800-424-9300 Or International 703-527-3887

### Section 2: Hazard Identification

<b>Classification of the substance or mixture</b>	This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).			
<b>GHS Label Elements</b>				
<b>Signal Word</b>	None			
<b>Hazard Statement</b>	The product contains no substances which at their given concentration are considered to be hazardous to health			
<b>Precautionary Statements</b>				
<b>Prevention</b>	None			
<b>Response</b>	None			
<b>Storage</b>	None			
<b>Disposal</b>	None			
<b>Hazards Not Otherwise Classified</b>	Not Applicable			
<b>Other Information</b>	Very toxic to aquatic life with long lasting effects; 6.7% of the mixture consists of ingredient(s) of unknown toxicity.			
<b>NFPA</b>	Health Hazard: 1	Flammability: 1	Instability: 0	Physical & Chemical Hazard: -
<b>HMIS</b>	Health Hazard: 1	Flammability: 1	Physical Hazard: 0	Personal Protection: X

### Section 3 - Composition/Information on Ingredients

<b>Substance / Mixture</b>		<b>Mixture</b>	
<b>Chemical Name</b>	<b>CAS Number</b>	<b>Weight %</b>	<b>Trade Secret</b>
Zinc (powder)	7440-66-6	10 - 15	*
Talc	14807-96-6	5 - 10	*
Graphite	7782-42-5	1 - 5	*

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

#### Section 4: First-Aid Measures

Descriptions of First Aid Measures	
<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician.
<b>Skin</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Most Important Symptoms/Effects (Acute & Delayed) Potential Health Effects	
<b>Most Important Symptoms/Effects</b>	No information available.
Indication of Immediate Medical Attention & Special Treatment Needed, If Necessary	
<b>Note To Physician</b>	Treat symptomatically.

#### Section 5: Fire-Fighting Measures

Extinguishing Media	
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment (i.e., building, cargo hold, etc.)

Special hazards arising from the substance or mixture	
<b>Specific Hazards Arising from the Chemical</b>	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
<b>Explosion Data: Sensitivity to Mechanical Impact</b>	None
<b>Explosion Data: Sensitivity to Static Discharge</b>	None
<b>Protective Equipment and Precautions for Firefighters</b>	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

Personal precautions, protective equipment and emergency procedures	
<b>Personnel Precautions</b>	Use personal protective equipment. Keep people away from and upwind of spill/leak.
<b>Environmental Precautions</b>	Do not allow material to contaminate ground water system. Prevent further leakage or spillage if safe to do so. Avoid release to the environment. See Section 12 for additional Ecological Information.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Small spillage: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Large spillage: Dike far ahead of liquid spill for later disposal. Take up mechanically and collect in suitable container for disposal.

### Section 7 - Handling and Storage

Conditions for safe storage, including any incompatibilities	
<b>Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
<b>Incompatible Products</b>	Acids. Oxidizing agents.

### Section 8 - Exposure Controls/Personal Protection

Control parameters			
Exposure Guidelines			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Talc (14807-96-6)	TWA: 2 mg/m <sup>3</sup>	(vacated) TWA: 2 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> contains no asbestos and <1% quartz TWA: 2 mg/m <sup>3</sup>

Graphite (7782-42-5)	TWA: 15 mg/m <sup>3</sup> total dust synthetic TWA: 5 mg/m <sup>3</sup> total dust synthetic (vacated) TWA: 2.5 mg/m <sup>3</sup> respirable dust natural (vacated) TWA: 10 mg/m <sup>3</sup> total dust synthetic (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> respirable dust
<b>Appropriate Engineering Controls</b>	Showers Eyewash stations Ventilation systems	
<b>Individual Protection</b>		
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.	
<b>Skin &amp; Body Protections</b>	Impervious clothing. Nitrile gloves.	
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. In case of insufficient ventilation wear suitable respiratory equipment.	

## Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties			
<b>Appearance (physical state, color)</b>	Semi Solid; Gray	<b>Flash Point</b>	>221 C
<b>Odor</b>	Petroleum Like	<b>Vapor Density</b>	N/A
<b>Odor Threshold</b>	N/A	<b>Specific Gravity</b>	1.37
<b>pH</b>	Neutral	<b>Relative Density</b>	
<b>Melting Point/Freezing Point</b>	>138 C / 280.4 F N/A	<b>Solubility in Water</b>	Negligible
<b>Volatiles by Wt. (%):</b>	N/A	<b>Partition coefficient: n-octanol/water</b>	N/A
<b>Flammability (solid, gas)</b>	N/A	<b>Auto-ignition temperature</b>	N/A
<b>Evaporation Rate</b>	N/A	<b>Decomposition temperature</b>	N/A
<b>Viscosity</b>	N/A		

### Section 10: Stability and Reactivity

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	Mixture reacts slowly with water resulting in evolution of hydrogen
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Incompatible products.
<b>Incompatible Materials</b>	Acids. Oxidizing agents.
<b>Hazardous Decomposition Products</b>	None known based on information supplied.

### Section 11 - Toxicological Information

Information on Toxicological Effects	
<b>Acute Toxicity</b>	6.7% of the mixture consists of ingredient(s) of unknown toxicity.
<b>LD50 Oral</b>	5575 mg/kg; Acute toxicity estimate
Information on The Likely Routes of Exposure	
<b>Ingestion</b>	Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Potential Chronic Health Effects	
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.
<b>Mutagenicity</b>	No information available.
<b>Teratogenicity</b>	No information available.
<b>Developmental Effects</b>	No information available.
<b>Fertility Effects</b>	No information available.

### Section 12 - Ecological Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Zinc (powder) 7440-66-6	EC50 72 h: 0.09 - 0.125 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 0.11 - 0.271 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.211-0.269 mg/L semi-static (Pimephales promelas) LC50 96 h: 2.16-3.05 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.24 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.41 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 0.45 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.59 mg/L semi-static (Oncorhynchus mykiss)	EC50 48 h: 0.139 - 0.908 mg/L Static (Daphnia magna)

		LC50 96 h: = 2.66 mg/L static (Pimephales promelas) LC50 96 h: = 3.5 mg/L static (Lepomis macrochirus) LC50 96 h: = 30 mg/L (Cyprinus carpio) LC50 96 h: = 7.8 mg/L static (Cyprinus carpio)	
Talc 14807-96-6		LC50 96 h: > 100 g/L semi-static (Brachydanio rerio)	
<b>Persistence and Degradability</b>		No information available.	
<b>Bioaccumulative Potential</b>		No information available.	
<b>Other Adverse Effects</b>		No information available.	

### Section 13 - Disposal Considerations

<b>Waste Disposal Methods</b>	Dispose of in accordance with federal, state, and local regulations
<b>Contaminated Packaging</b>	Do not re-use empty containers.

### Section 14 - Transport Information

<b>DOT</b>	Not regulated
<b>TDG</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III
<b>MEX</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III
<b>ICAO</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III



<b>IATA</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III
<b>IMDG/IMP</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>EmS No.</b>	F-A, S-F
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III
<b>RID</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III
<b>ADR</b>	
<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Tunnel Restriction Code</b>	(E)
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III
<b>ADR/RID Labels</b>	0
<b>ADN</b>	
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Special Provisions</b>	274, 335, 601
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc (powder)), 9, III

<b>Limited Quantity</b>	5 L
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### Section 15 - Regulatory Information

<b>U.S. Federal Regulations</b>					
<b>SARA 313</b>					
Chemical Name	CAS - No	Weight %	Threshold Value %		
Zinc (Powder)	7440-66-6	10 - 15	1.0		
<b>SARA 311/312 Hazard Categories</b>					
<b>Acute Health Hazard</b>		No			
<b>Chronic Health Hazard</b>		No			
<b>Fire Hazard</b>		No			
<b>Sudden Release of Pressure Hazard</b>		No			
<b>Reactive Hazard</b>		No			
<b>Clean Water Act</b>					
Chemical Name	Toxic Pollutants		Priority Pollutants		
Zinc (Powder)	X		X		
<b>CERCLA</b>					
Chemical Name	Hazardous Substances RQs		RQ		
Zinc (Powder)	1000 Lb.		RQ 454 kg final RQ RQ 1000 lb final RQ		
<b>California Proposition 65</b>		This product does not contain any Proposition 65 chemicals.			
<b>U.S. State Right-to-Know Regulations</b> (X" designates that the ingredients are listed)					
Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Zinc (Powder)	X	X	X		X
Graphite	X	X	X		X
Talc	X	X	X		X
Calcium Oxide	X	X	X		X
<b>EPA Pesticide Registration Number</b>		Not applicable			

## Section 16 - Other Information

<b>Last Revision Date:</b>	<b>07/02/2015</b>
<b>Preparation Date:</b>	<b>07/07/2015</b>
<b>Disclaimer/Statement of Liability:</b>	The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Key to abbreviations			
<b>ACGIH</b>	American Conference of Governmental Industrial Hygiene	<b>TWA</b>	Time-Weighted Averages are based on 8h/day, 40h/week exposures
<b>NIOSH</b>	National Institute of Occupational Safety and Health	<b>STEL</b>	Short Term Exposure Limits are based on 15-minute exposures
<b>OSHA</b>	Occupational Safety and Health Administration	<b>STEV</b>	Short Term Exposure Value
<b>MSHA</b>	Mine Safety and Health Administration	<b>TWAEV</b>	Time Weighted Average Exposure Values
<b>MARPOL 73/78</b>	International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended.	<b>IBC Code</b>	International Bulk Chemical Code
<b>IMDG</b>	International Maritime Dangerous Goods	<b>CEPA</b>	<i>Canadian Environmental Protection Act</i>
<b>WHMIS</b>	Workplace Hazardous Materials Information System	<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act
<b>SARA</b>	Superfund Amendments and Reauthorization Act	<b>TPQs</b>	Threshold Planning Quantities
<b>EPCRA RQ</b>	Emergency Planning & Community Right-to-Know Act Reportable Quantities	<b>PBT</b>	Persistent Bioaccumulative Toxic
<b>N/A</b>	Not Applicable	<b>NDA</b>	Not Data Available



# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** PENETROX™ A OXIDE INHIBITING COMPOUND

**Product Description:** Oxide inhibiting natural (petroleum) base compound with evenly suspended zinc particles.

**Intended Use:** Aluminum to aluminum connections, aluminum to copper connections, and aluminum conduit threads.

### COMPANY IDENTIFICATION

**Supplier:** BURNDY LLC  
47 East Industrial Park Drive  
Manchester, NH 03109 USA

**Canada Distributor:** BURNDY Canada Inc.  
870 Brock Rd S  
Pickering, ON. L1W 1Z8

**24 Hour Emergency (INFOTRAC)** (800) 535-5053 (US and Canada)

(352) 323-3500 (International)

**Burndy Informational Number** (603) 647-5000

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION

Health	Environmental	Physical
•No Classifiable hazards	•No Classifiable hazards	•No Classifiable hazards

### LABELLING

<b>Symbols:</b> Not Applicable	
<b>Signal Word:</b> Not Applicable	
<b>Hazard Statements</b> Not Applicable	<b>Precautionary Statements</b> Not Applicable

### ADDITIONAL INFORMATION

**Hazards not otherwise classified:** No additional information available

**Unknown acute toxicity:** Not applicable

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### MIXTURES

Name	CAS#	Wt. Percentage*
Zinc Oxide	1314-13-2	2

\* 98% material composition inclusive of inert and non-hazardous filler withheld as trade secret in accordance with paragraph 1910.1200(i)(1).

## SECTION 4 FIRST AID MEASURES

### DESCRIPTION OF THE FIRST AID MEASURE

**Eye:** In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. This compound contains abrasive particles. If irritation persists, get medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

**Inhalation:** Not a normal route of exposure. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

**Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

**Inhalation:** Not a normal route of exposure.

**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea, vomiting, and diarrhea.

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

**Note to Physicians:** Symptoms may not appear immediately.

**Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5 FIRE FIGHTING MEASURES

### FLAMMABILITY

**Flammability:** Not flammable by WHMIS/OSHA criteria.

### EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use water jet.

### SPECIAL HAZARDS ARISING FROM THE CHEMICAL

**Products of Combustion:** May include, and are not limited to: oxides of carbon.

**Reactivity:** No dangerous reactions known under normal conditions of use.

### Explosion Data:

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).



**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

- For non-emergency personnel:** No additional information available
- For emergency responders:** No additional information available
- Environmental precautions:** Prevent entry to sewers and public waters.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP**

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Scoop up material and place in a disposal container.

**SECTION 7 HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**

**Handling:** Avoid contact with skin and eyes. Do not swallow. Avoid breathing vapour/mist/dust/fumes/gas/spray. Handle and open container with care. When using do not eat or drink. (See section 8)

**General Hygiene Advice:** Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

**Storage:** Keep out of the reach of children. Keep container tightly closed. (See section 10)

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**CONTROL PARAMETERS:**

**Exposure Guidelines**

Occupational Exposure Limits				
Ingredient	OSHA-PEL	ACGIH	US - IDLH	NIOSH REL
Zinc oxide (1314-13-2)	TWA - 5 mg/m <sup>3</sup> (fume); 15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable fraction)	TWA - 2 mg/m <sup>3</sup> (respirable particulate matter) STEL: 10 mg/m <sup>3</sup> (respirable particulate matter)	500 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (dust and fume) STEL: 10 mg/m <sup>3</sup> (fume) Ceiling: 15 mg/m <sup>3</sup> (dust)

**EXPOSURE CONTROLS**

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

## INDIVIDUAL PROTECTIVE MEASURES

<b>Eye/Face Protection:</b>	Safety glasses or goggles are recommended when using product.
<b>Skin Protection:</b>	
<b>Hand Protection:</b>	Wear chemical resistant gloves.
<b>Body Protection:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	None necessary under normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Environmental exposure controls:</b>	Avoid release to the environment.

### General Health and Safety Measures:

Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

## SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Paste / Thick grease.
<b>Color:</b>	Gray.
<b>Odor:</b>	Mild odour.
<b>Odor Threshold:</b>	Not available.
<b>Physical State:</b>	Solid.
<b>pH:</b>	Not available.
<b>Melting Point/Freezing Point:</b>	Not available.
<b>Initial Boiling Point and Boiling Range:</b>	Not available.
<b>Flash Point:</b>	> 204 °C (> 400 °F)
<b>Relative Evaporation Rate (butylacetate = 1):</b>	Not available.
<b>Flammability:</b>	Not flammable.
<b>Lower Flammability/Explosive Limit:</b>	Not available.
<b>Upper Flammability/Explosive Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Relative Vapor Density at 20°C:</b>	> 1 (Air = 1)
<b>Relative Density/Specific Gravity:</b>	1.47
<b>Solubility:</b>	Insoluble.
<b>Partition coefficient: n-octanol/water:</b>	Not available.
<b>Auto-ignition Temperature:</b>	> 204 °C (> 400 °F)
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Explosive Properties:</b>	Not available.
<b>Oxidizing Properties:</b>	Not available.

## SECTION 10 STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	No dangerous reaction known under conditions of normal use.
<b>CHEMICAL STABILITY :</b>	Stable under normal storage conditions.
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	
<b>CONDITIONS TO AVOID:</b>	No dangerous reaction known under conditions of normal use. Heat. Incompatible materials.
<b>INCOMPATIBLE MATERIALS:</b>	Oxidizers.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	May include, and are not limited to: oxides of carbon.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**INFORMATION ON TOXICOLOGICAL EFFECTS**

**Symptoms related to physical/chemical/toxicological characteristics:**

- Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting, gastrointestinal irritation and diarrhea.
- Inhalation:** Not a normal route of exposure.

**ACUTE TOXICITY:**

<b>Ingredient</b>	<b>LD50</b>
Zinc oxide	Oral >5000 mg/kg, rat;

See Section 15 for more information.

- Acute toxicity (oral):** Not classified
- Acute toxicity (dermal):** Not classified
- Acute toxicity (inhalation):** Not classified

**DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE**

- Skin Corrosion/Irritation:** Based on available data, the classification criteria are not met.
- Serious Eye Damage/Irritation:** Based on available data, the classification criteria are not met.
- Respiratory Sensitization:** Based on available data, the classification criteria are not met.
- Skin Sensitization:** Based on available data, the classification criteria are not met.
- STOT-Single Exposure:** Based on available data, the classification criteria are not met.
- Chronic Health Effects:**
  - Carcinogenicity:** Based on available data, the classification criteria are not met.
  - Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.
  - Reproductive Toxicity:** Not classified

**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.

**Toxicologically Synergistic Materials:** Not available.

**Other Information:** Not available.

**SECTION 12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

**Acute/Chronic Toxicity:** Very toxic to aquatic life with long lasting effects.

**PERSISTENCE AND DEGRADABILITY**

Not established.

**BIOACCUMULATIVE POTENTIAL**

**Bioaccumulation:** Not established.

**MOBILITY IN SOIL**

Not available.



#### OTHER ADVERSE EFFECTS

**Effect on the global warming:** No known effects from this product

### SECTION 13 DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

**Disposal Method:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

### SECTION 14 TRANSPORTATION

Regulatory Information	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Label(s)	RQ	Additional Information
US DOT	Not regulated by DOT						
TDG	Not regulated by TDG						
ADR	Not regulated by ADR						
IATA	Not regulated by IATA						
IMDG	Not regulated by IMDG						

### SECTION 15 REGULATORY INFORMATION

#### Federal Regulations:

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

**International Regulations:** No additional information available

#### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**Canada:** This product has been classified in accordance with the Hazardous Products Regulations (HPR) WHMIS 2015 and the SDS contains all the information required by the HPR.

**US:** SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

#### State Regulations

##### California Proposition 65:

This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65  
OSHA Occupational Safety and Health Administration.



**SECTION 16 OTHER INFORMATION**

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Revision Date	Description	Sections Affected
6/2/11	MSDS Version written	1-11
7/19/11	Updated to GHS criteria, additional sections added.	1-16
8/1/11	Update	15
6/13/13	Version number update	-
11/22/13	Version number update	-
7/25/14	Updates	3,15
4/28/15	Version number update	-
10/28/15	Updates	1-16
06/30/2017	Updates	1-16
06/26/2019	Updates	1-16
07/23/2019	Updates	1-16

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