

## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name:** PENETROX™ A-13 OXIDE INHIBITING COMPOUND  
**Product Description:** Oxide inhibiting compound with evenly distributed zinc particles  
**Intended Use:** Corrosion inhibitor

#### COMPANY IDENTIFICATION

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

**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

**Hazard not otherwise classified:** Not applicable

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### MIXTURES

Name	CAS #	Wt. Percentage*
Zinc Oxide	1314-13-2	1 - 5

\* 95-99% 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:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. This compound contains abrasive particles. If eye irritation persists: Get medical advice/attention

**Skin:** If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.

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

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### **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, and cracking of the skin.
- Inhalation:** Not a normal route of exposure.
- Ingestion:** May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## **SECTION 5 FIRE FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

- Suitable extinguishing media:** Dry chemical. Foam. Carbon dioxide.
- Unsuitable extinguishing media:** Do not use water jet.

### **SPECIAL HAZARDS ARISING FROM THE CHEMICAL**

- Fire hazard:** Products of combustion may include and are not limited to: oxides of carbon.

### **SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS**

Keep upwind of fire. Wear full firefighting 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:** Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for Cleaning-Up:** Sweep or shovel spills into appropriate container for disposal. For further information refer to section 8: "Exposure controls/personal protection".

## **SECTION 7 HANDLING AND STORAGE**

### **PRECAUTIONS FOR SAFE HANDLING**

- Handling:** Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
- Hygiene Measures:** Wash contaminated clothing before reuse. Always wash hands after handling the product.
- Storage:** Keep out of the reach of children. Keep container tightly closed.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Occupational Exposure Limits				
Ingredient	OSHA-PEL	ACGIH	IDLH	NIOSH
Zinc oxide	TWA: 5 mg/m <sup>3</sup> (fume) 15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction) Regulatory reference: OSHA Annotated Table Z-1	TWA: 2 mg/m <sup>3</sup> (respirable particulate matter) STEL: 10 mg/m <sup>3</sup> (respirable particulate matter) TLV® Basis: Metal fume fever Regulatory reference - ACGIH 2021	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:** Ensure good ventilation of the workstation.

**Environmental Controls:** Avoid release to the environment

**INDIVIDUAL PROTECTIVE MEASURES**

**Eye/Face Protection:** Safety glasses or goggles are recommended when using product.

**Skin Protection:**

**Hand Protection:** None required.

**Body Protection:** Wear suitable protective clothing

**Respiratory Protection:** None required

**Other Information:**

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**

<b>Physical State:</b>	Solid.
<b>Appearance:</b>	Paste. Thick grease
<b>Color:</b>	Gray
<b>Odor:</b>	Not available
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting Point/Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	>260 °C (>500 °F)
<b>Relative Evaporation Rate (butyl acetate=1):</b>	Not available
<b>Flammability:</b>	Not flammable.
<b>Vapor Pressure:</b>	Not available.
<b>Relative vapor density at 20 °C:</b>	Not available
<b>Relative Density:</b>	Not available
<b>Solubility:</b>	Not available
<b>Partition coefficient n-octanol/water:</b>	Not available
<b>Auto-ignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity, Kinematic:</b>	Not available
<b>Viscosity, Dynamic:</b>	Not available
<b>Explosion Limits:</b>	Not available
<b>Explosive Properties:</b>	Not available
<b>Oxidizing Properties:</b>	Not available

**SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** No dangerous reaction known under conditions of normal use

<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility Of Hazardous Reactions:</b>	No dangerous reaction known under conditions of normal use
<b>Conditions To Avoid:</b>	Heat
<b>Incompatible Materials:</b>	None known
<b>Hazardous Decomposition Products:</b>	May include, and are not limited to: oxides of carbon

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
-------------------	----------------------------------

<b>Acute toxicity (oral):</b>	Not classified
<b>Acute toxicity (dermal):</b>	Not classified
<b>Acute toxicity (inhalation):</b>	Not classified

Ingredient	LC50	LD50
Zinc oxide	Inhalation: > 5700 mg/m <sup>3</sup> (Exposure time: 4 h), rat	Oral:>5000 mg/kg, rat Dermal: > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

<b>Skin Corrosion/Irritation:</b>	Not classified
<b>Serious Eye Damage/Irritation:</b>	Not classified
<b>Respiratory Or Skin Sensitization:</b>	Not classified
<b>Germ Cell Mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive Toxicity:</b>	Not classified
<b>STOT-Single Exposure:</b>	Not classified
<b>STOT-Repeated Exposure:</b>	Not classified
<b>Aspiration Hazard:</b>	Not classified
<b>Viscosity, Kinematic:</b>	No data available
<b>Symptoms/Effects After Inhalation:</b>	Not a normal route of exposure.
<b>Symptoms/Effects After Skin Contact:</b>	May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin.
<b>Symptoms/Effects After Eye Contact:</b>	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
<b>Symptoms/Effects After Ingestion:</b>	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
-------------------	-------------------------------

**General:** Very toxic to aquatic life with long lasting effects.


Ingredient	LC50
Zinc oxide	Fish, 1.55 mg/l (Exposure time: 96 h - Species: Danio rerio [static])

<b>Persistence And Degradability:</b>	Not established
<b>Bioaccumulative Potential:</b>	Not established
<b>Mobility in Soil:</b>	Not available
<b>Other Information:</b>	No other effects known

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
-------------------	--------------------------------

**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	HazardClass	PackingGroup	Label(s)
US DOT	UN3077	Environmentally hazardous substances, solid, n.o.s. (Zinc, Zinc Oxide)	9	III	

**Other Information:** No supplementary information available.

**Special Transport Precautions:** Do not handle until all safety precautions have been read and understood

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**SECTION 15 REGULATORY INFORMATION**

**Us 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.

**International Regulations:** No additional information available

**US State Regulations:** California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

**SECTION 16 OTHER INFORMATION**

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

Revision Date	Description	Sections Affected
06/02/2011	MSDS Version written	1-11
07/21/2011	Updated to GHS criteria, additional sections added.	1-16
08/01/2011	Updated	15
11/08/2012	Updated	1, 3, 8, 9, 11, 12, 15
04/02/2013	Updated	11
07/05/2013	Version number update	-
07/25/2014	Updates	3,15
09/16/2015	Updates	1-16
10/28/2015	Updates	1-16
11/21/2016	Updates	8
10/20/2017	Updates	1-16
8/30/2018	Updates	15
07/18/2019	Updates	1-16
09/13/2019	Updates	1-16
02/08/2023	Updates	1-16

-----  
 This SDS provides a good faith representation of information believed to be accurate as of the last revision date. This document does not create any express or implied product warranties. Since conditions of use are beyond the control of Burndy LLC, all risks associated with product use are assumed by the user.  
 -----