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

Symbols: Not Applicable	
Signal Word: Not Applicable	
Hazard Statements Not Applicable	***Precautionary Statements*** 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/m³ (fume) 15 mg/m³ (total dust) 5 mg/m³ (respirable fraction) Regulatory reference: OSHA Annotated Table Z-1	TWA:2 mg/m³ (respirable particulate matter) STEL:10 mg/m³ (respirable particulate matter) TLV® Basis: Metal fume fever Regulatory reference - ACGIH 2021	500 mg/m³	TWA:5 mg/m³ (dust and fume) STEL:10 mg/m³ (fume) Ceiling:15 mg/m³ (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

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

SECTION 10 STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use

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

SECTION 11 TOXICOLOGICAL INFORMATION

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

Ingredient	LC50	LD50
Zinc oxide	Inhalation: > 5700 mg/m³ (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)

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

SECTION 12 ECOLOGICAL INFORMATION

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])

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

SECTION 13 DISPOSAL CONSIDERATIONS

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

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