



Revision Number: 004.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE L-GP 4232 CORROSION INHIBITOR known as P3 PREVOX 4232
Product type: Corrosion inhibitor
Company address: Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071
IDH number: 594762
Region: United States
Contact information:
Telephone: 248.583.9300
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

| | | | |
|------------------------|--------|-----------------------------|--------------------|
| Physical state: | Liquid | HEALTH: | *1 |
| Color: | Amber | FLAMMABILITY: | 0 |
| Odor: | Mild | PHYSICAL HAZARD: | 0 |
| | | Personal Protection: | See MSDS Section 8 |

CAUTION: CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact: This product may cause irritation to the skin. Prolonged contact with this product may cause allergic skin sensitization reactions.
Eye contact: This product is irritating to the eyes.
Ingestion: Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|----------------------------|------------|---------|
| Triethanolamine | 102-71-6 | 10 - 30 |
| Carboxylic acid amine salt | Unknown | 10 - 30 |
| Monoethanolamine | 141-43-5 | 1 - 5 |

4. FIRST AID MEASURES

| | |
|----------------------|---|
| Inhalation: | If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist. |
| Skin contact: | For skin contact flush with large amounts of water. |
| Eye contact: | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| Ingestion: | Seek medical advice. DO NOT induce vomiting unless directed to do so by medical personnel. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flash point: | > 100 °C (> 212°F) Cleveland open cup |
| Autoignition temperature: | Not determined |
| Flammable/Explosive limits - lower: | Not determined |
| Flammable/Explosive limits - upper: | Not determined |
| Extinguishing media: | Use media appropriate for surrounding material. |
| Special firefighting procedures: | Wear full protective clothing. Wear self-contained breathing apparatus. |
| Unusual fire or explosion hazards: | This product is combustible at high temperatures. |
| Hazardous combustion products: | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

6. ACCIDENTAL RELEASE MEASURES

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

| | |
|-----------------------------------|---|
| Environmental precautions: | Prevent further leakage or spillage if safe to do so. Wear appropriate personal protective equipment. |
| Clean-up methods: | Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations. |

7. HANDLING AND STORAGE

| | |
|------------------|--|
| Handling: | Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Provide adequate ventilation. Wash thoroughly after handling. Do not take internally. Do not mix this product with fluids which contain NITRITES/NITRATES. NITROSAMINE may be formed. |
| Storage: | For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Thaw and mix thoroughly if frozen. |

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|----------------------------|-------------------------|------------------------|-----------|-------|
| Triethanolamine | 5 mg/m3 TWA | None | None | None |
| Carboxylic acid amine salt | None | None | None | None |
| Monoethanolamine | 6 ppm STEL 3 ppm TWA | 3 ppm (6 mg/m3) TWA | None | None |

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection: Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Amber
Odor: Mild
Odor threshold: Not available.
pH: 9.0 - 9.7
Vapor pressure: Not applicable
Boiling point/range: 100 °C (212°F) calculated
Melting point/ range: Not determined
Specific gravity: 1.04 - 1.06 at 60 °F (15.56 °C)
Vapor density: Not determined
Flash point: > 100 °C (> 212°F) Cleveland open cup
Flammable/Explosive limits - lower: Not determined
Flammable/Explosive limits - upper: Not determined
Autoignition temperature: Not determined
Evaporation rate: Not determined
Solubility in water: Complete
Partition coefficient (n-octanol/water): Not determined
VOC content: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon.

Incompatible materials: This product may react with strong acids or oxidizing agents.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Do not mix this product with nitrites or other nitrosating agents because a carcinogenic nitrosamine may be formed.

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|----------------------------|----------------|-----------------|---|
| Triethanolamine | No | No | No |
| Carboxylic acid amine salt | No | No | No |
| Monoethanolamine | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|----------------------------|--|
| Triethanolamine | Irritant, Allergen |
| Carboxylic acid amine salt | No Data |
| Monoethanolamine | Irritant, Kidney, Liver, Corrosive, Respiratory, Developmental |

12. ECOLOGICAL INFORMATION

Ecological information: None identified.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 313: None above reporting de minimus
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Export Restrictions: This product is controlled for export by the United States Department of Commerce. The Export Classification Control Number (ECCN) is 1C995.a.2.a

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Regulatory Affairs

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