



Revision Number: 004.3

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE M-FE 700 IRON PHOSPHATE known as PREP-N-COTE 700
Product type: Conversion coating
Company address: Henkel Corporation
 32100 Stephenson Highway
 Madison Heights, MI 48071

IDH number: 594268
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 | HMIS: | |
| Color: | Yellow | HEALTH: | 2 |
| Odor: | None | FLAMMABILITY: | 0 |
| | | PHYSICAL HAZARD: | 0 |
| | | Personal Protection: | See MSDS Section 8 |

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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 is irritating to the skin. Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis. Product contains components which may be absorbed through the skin.
Eye contact: This product may cause irritation to the eyes. Prolonged or repeated contact may worsen irritation.
Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea. May produce blood effects (methemoglobinemia and anemia) reducing the blood's ability to transport oxygen.

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

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|---------------------------------|-------------|---------|
| Sodium phosphate | Proprietary | 10 - 30 |
| Hydroxylamine sulfate | 10039-54-0 | 1 - 5 |
| Sodium 3-nitrobenzenesulphonate | 127-68-4 | 1 - 5 |
| Sodium xylene sulfonate | Proprietary | 1 - 5 |
| Sodium fluoride | 7681-49-4 | 0.1 - 1 |
| Sodium borofluoride | 13755-29-8 | 0.1 - 1 |

4. FIRST AID MEASURES

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|----------------------|---|
| 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: | Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. |
| Eye contact: | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If symptoms develop and persist, get medical attention. |
| Ingestion: | Get immediate medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Flash point: | Not applicable |
| Autoignition temperature: | Not applicable |
| Flammable/Explosive limits - lower: | Not applicable |
| Flammable/Explosive limits - upper: | Not applicable |
| 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 an aqueous mixture which will not burn. |
| Hazardous combustion products: | Irritating and toxic gases or fumes may be released during a fire. |

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 protective equipment and clothing during clean-up. |
| 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

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|------------------|--|
| Handling: | Avoid contact with eyes, skin and clothing. Do not take internally. For industrial use only. |
| Storage: | For safe storage, store at or above 40 °F (4.4 °C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. |

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 |
|---------------------------------|--|---|-----------|-------|
| Sodium phosphate | None | None | None | None |
| Hydroxylamine sulfate | None | None | None | None |
| Sodium 3-nitrobenzenesulphonate | None | None | None | None |
| Sodium xylene sulfonate | None | None | None | None |
| Sodium fluoride | 2.5 mg/m3 TWA (as F) | 2.5 mg/m3 TWA (as F) 2.5 mg/m3 TWA Dust. | None | None |
| Sodium borofluoride | 2 mg/m3 TWA Inhalable fraction. 6 mg/m3 STEL Inhalable fraction. 2.5 mg/m3 TWA (as F) | 2.5 mg/m3 TWA (as F) 2.5 mg/m3 TWA Dust. | 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 chemical goggles; face shield (if splashing is possible).

Skin protection:

Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|---------------------|
| Physical state: | Liquid |
| Color: | Yellow |
| Odor: | None |
| Odor threshold: | Not available. |
| pH: | 2.5 - 3.5 |
| Vapor pressure: | Not determined |
| Boiling point/range: | > 98.9 °C (> 210°F) |
| Melting point/ range: | 15 °F (-9.4 °C) |
| Specific gravity: | 1.14 - 1.16 |
| Vapor density: | Not determined |
| Flash point: | Not applicable |
| Flammable/Explosive limits - lower: | Not applicable |
| Flammable/Explosive limits - upper: | Not applicable |
| Autoignition temperature: | Not applicable |
| Evaporation rate: | Not available. |
| Solubility in water: | Complete |
| Partition coefficient (n-octanol/water): | Not determined |
| VOC content: | Not applicable |

10. STABILITY AND REACTIVITY

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| Stability: | Stable at normal conditions. |
| Hazardous reactions: | Will not occur. |
| Hazardous decomposition products: | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| Incompatible materials: | May react with strong bases or oxidizing agents. |
| Conditions to avoid: | Avoid excessive heat and ignition sources. |

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---------------------------------|----------------|-----------------|---|
| Sodium phosphate | No | No | No |
| Hydroxylamine sulfate | No | No | No |
| Sodium 3-nitrobenzenesulphonate | No | No | No |
| Sodium xylene sulfonate | No | No | No |
| Sodium fluoride | No | No | No |
| Sodium borofluoride | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|---------------------------------|--|
| Sodium phosphate | Cardiac, Corrosive, Gastrointestinal, Irritant, Metabolic, Nervous System |
| Hydroxylamine sulfate | Allergen, Blood, Central nervous system, Irritant, Mutagen, Skin |
| Sodium 3-nitrobenzenesulphonate | Irritant |
| Sodium xylene sulfonate | Irritant |
| Sodium fluoride | Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Metabolic, Muscle, Teeth, Less weight gain and food intake. |
| Sodium borofluoride | Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

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: noneNone above reporting de minimus

| | |
|-------------------------------------|---|
| CERCLA/SARA Section 302 EHS: | None above reporting de minimus Hydrogen fluoride (CAS# 7664-39-3). Hydrochloric acid (CAS# 7647-01-0). Ethylene oxide (CAS# 75-21-8). Propylene oxide (CAS# 75-56-9). |
| CERCLA/SARA Section 311/312: | Immediate 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. 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. |

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, E |

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Corrected information in Section(s): 14

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