



Revision Number: 004.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE M-FE 1030 IRON PHOSPHATE known as BONDERITE 1030
IDH number: 593941
Product type: Conversion coating
Region: United States
Company address: Henkel Corporation
 32100 Stephenson Highway
 Madison Heights, MI 48071
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:	Colorless to light yellow	HEALTH:	*3
Odor:	Odorless	FLAMMABILITY:	0
		PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8

**DANGER-CORROSIVE! CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.
MAY BE HARMFUL IF SWALLOWED.**

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Mists, vapors or liquid may cause severe irritation or burns.
Skin contact: Contact with liquid may produce severe skin irritation including redness, inflammation and chemical burns.
Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness, stupor, tremors, uneven heart action, coma and rarely death.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders. Preexisting cardiovascular or bone marrow diseases.

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	%
Sodium chlorate	7775-09-9	10 - 30
Sodium phosphate	Proprietary	10 - 30
Phosphoric acid	7664-38-2	5 - 10
Sodium nitrate	7631-99-4	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:	Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Seek medical advice. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Notes to physician:	The hemolytic effect of sodium chlorate makes it a strong inducer of methemoglobinemia, against which methylene blue is not effective, except in the early stages.

5. FIRE FIGHTING MEASURES

Flash point:	Not applicable
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 an aqueous mixture which will not burn. If evaporated to dryness, solid residue is an oxidizing agent and may cause spontaneous ignition of combustible materials.
Hazardous combustion products:	Decomposes with heat to produce oxides of nitrogen. May liberate chlorine gas if mixed with hydrochloric acid.

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 suitable protective clothing, gloves and eye/face protection.
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:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not take internally. For industrial use only.
Storage:	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
Sodium chlorate	None	None	None	None
Sodium phosphate	None	None	None	None
Phosphoric acid	1 mg/m3 TWA 3 mg/m3 STEL	1 mg/m3 TWA	None	None
Sodium nitrate	None	None	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. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Colorless to light yellow
Odor:	Odorless
Odor threshold:	Not available.
pH:	< 2
Vapor pressure:	Not determined
Boiling point/range:	100 °C (212°F) calculated
Melting point/ range:	Not determined
Specific gravity:	1.34 - 1.37
Vapor density:	Not determined
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Evaporation rate:	Same as water.
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not applicable

10. STABILITY AND REACTIVITY

Stability:

Stable at normal conditions.

Hazardous reactions:

Will not occur.

Hazardous decomposition products:

Decomposes with heat to produce oxides of nitrogen. May liberate chlorine gas if mixed with hydrochloric acid.

Incompatible materials:

This product may react with strong alkalies. Do not mix this chemical or solutions of this chemical with hydrochloric acid (muriatic acid). May liberate chlorine gas. Do not allow chemical to dry in the presence of organic materials.

Conditions to avoid:

Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sodium chlorate	No	No	No
Sodium phosphate	No	No	No
Phosphoric acid	No	No	No
Sodium nitrate	No	No	No

Hazardous components	Health Effects/Target Organs
Sodium chlorate	Irritant, Blood, Kidney, Liver
Sodium phosphate	Cardiac, Corrosive, Gastrointestinal, Irritant, Metabolic, Nervous System
Phosphoric acid	Irritant, Corrosive
Sodium nitrate	Blood, Central nervous system, Corrosive, Gastrointestinal, Irritant

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations. This chemical contains phosphates.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002).

14. TRANSPORT INFORMATION

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

Proper shipping name: Oxidizing liquid, corrosive, n.o.s. (Sodium chlorate, Phosphoric acid)
Hazard class or division: 5.1 (8)
Identification number: UN 3098
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Oxidizing liquid, corrosive, n.o.s. (Sodium chlorate, Phosphoric acid)
Hazard class or division: 5.1 (8)
Identification number: UN 3098
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: OXIDIZING LIQUID, CORROSIVE, N.O.S. (Sodium chlorate, Phosphoric acid)
Hazard class or division: 5.1 (8)
Identification number: UN 3098
Packing group: II
Additional information: IMDG-Code: Segregation group 1- Acids, Segregation group 4 - Chlorates

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 minimis
CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Sodium nitrate (CAS# 7631-99-4).

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present. No California Proposition 65 listed chemicals are known to be present.

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:

C, D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Updated Contact Information in Section 1.

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