



Revision Number: 003.2

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** BONDERITE M-NT 7400 NON CHROME IDH number: 599060  
 PRETREAT known as BONDERITE 7400  
**Product type:** 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

<b>Physical state:</b>	Liquid	<b>HMIS:</b>	
<b>Color:</b>	Brown	<b>HEALTH:</b>	*3
<b>Odor:</b>	Bland	<b>FLAMMABILITY:</b>	1
		<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**DANGER-CORROSIVE!** MAY CAUSE SEVERE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
 MAY CAUSE EYE AND SKIN BURNS.  
 MAY BE HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

### Potential Health Effects

**Inhalation:** Mists, vapors or liquid may cause severe irritation or burns.  
**Skin contact:** This product may cause irritation to the skin. Liquid or vapor can cause fluoride-type irritation or burns which may not be immediately painful or visible.  
**Eye contact:** Prolonged contact may cause severe irritation or corneal burns.  
**Ingestion:** This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

**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	%
Fluoride compound	Proprietary	5 - 10
1-Propoxy-2-propanol	1569-01-3	5 - 10
Manganese compounds	Proprietary	1 - 5
Hexafluorotitanic acid	17439-11-1	1 - 5
Phosphoric acid	7664-38-2	1 - 5

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
<b>Skin contact:</b>	Remove contaminated clothing and footwear. Rinse with large amounts of running water. GET MEDICAL ATTENTION IMMEDIATELY! If iced 0.13% benzalkonium chloride (Zephiran) solution or 2.5% calcium gluconate gel are available, the rinsing may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped. If benzalkonium chloride or calcium gluconate gel is not available, rinsing must continue until medical treatment is provided.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Seek medical advice. DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>Notes to physician:</b>	Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	> 63.3 °C (> 145.94 °F) Tagliabue closed cup
<b>Autoignition temperature:</b>	Not determined
<b>Flammable/Explosive limits - lower:</b>	Not determined
<b>Flammable/Explosive limits - upper:</b>	Not determined
<b>Extinguishing media:</b>	Use media appropriate for surrounding material.
<b>Special firefighting procedures:</b>	Wear full protective clothing. Wear self-contained breathing apparatus.
<b>Unusual fire or explosion hazards:</b>	This product is an aqueous mixture and although it will exhibit a flash point, it will not support combustion.
<b>Hazardous combustion products:</b>	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.

<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up.
<b>Clean-up methods:</b>	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

<b>Handling:</b>	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. For industrial use only. Do not take internally.
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**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. Protect from freezing.

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
Fluoride compound	None	None	None	None
1-Propoxy-2-propanol	None	None	None	None
Manganese compounds	0.2 mg/m <sup>3</sup> TWA (as Mn)	5 mg/m <sup>3</sup> Ceiling (as Mn)	None	None
Hexafluorotitanic acid	2.5 mg/m <sup>3</sup> TWA (as F)	2.5 mg/m <sup>3</sup> TWA Dust. 2.5 mg/m <sup>3</sup> TWA (as F)	None	None
Phosphoric acid	1 mg/m <sup>3</sup> TWA 3 mg/m <sup>3</sup> STEL	1 mg/m <sup>3</sup> TWA	None	None

**Engineering controls:**

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

**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

Physical state:	Liquid
Color:	Brown
Odor:	Bland
Odor threshold:	Not available.
pH:	< 2 (6% solution)
Vapor pressure:	Not determined
Boiling point/range:	> 155.6 °C (> 312.1 °F)
Melting point/ range:	Not determined
Specific gravity:	1.09 - 1.12 at 15.6 °C (60.08 °F)
Vapor density:	Not determined
Flash point:	> 63.3 °C (> 145.94 °F) Tagliabue closed 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:	5 % EPA Method 24

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. May liberate hydrogen fluoride.
<b>Incompatible materials:</b>	This product may react with strong alkalies. This material will react with glass, concrete, certain metals, silica containing materials, rubber, leather, and many organics.
<b>Conditions to avoid:</b>	Keep away from heat, ignition sources and incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Flouride compound	No	No	No
1-Propoxy-2-propanol	No	No	No
Manganese compounds	No	No	No
Hexafluorotitanic acid	No	No	No
Phosphoric acid	No	No	No

Hazardous components	Health Effects/Target Organs
Flouride compound	No Data
1-Propoxy-2-propanol	Central nervous system, Eyes, Irritant, Kidney
Manganese compounds	Behavioral, Blood, Developmental, Irritant, Kidney, Liver, Lung, Mutagen, Nervous System, Reproductive, Respiratory, Vascular
Hexafluorotitanic acid	No Records
Phosphoric acid	Irritant, Corrosive

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	Not available.
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## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Follow all local, state, federal and provincial regulations for disposal. This chemical contains heavy metals. This chemical contains phosphates.
<b>Hazardous waste number:</b>	This product, if discarded, may be characterized as a RCRA corrosive waste, D002.

## 14. TRANSPORT INFORMATION

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

<b>Proper shipping name:</b>	Corrosive liquid, acidic, inorganic, n.o.s. (Hexafluoro titanic acid, Phosphoric acid)
<b>Hazard class or division:</b>	8
<b>Identification number:</b>	UN 3264
<b>Packing group:</b>	III

### International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Corrosive liquid, acidic, inorganic, n.o.s. (Hexafluoro titanic acid, Phosphoric acid)
<b>Hazard class or division:</b>	8
<b>Identification number:</b>	UN 3264
<b>Packing group:</b>	III

**Water Transportation (IMO/IMDG)**

Proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hexafluoro titanitic acid, Phosphoric acid)
Hazard class or division:	8
Identification number:	UN 3264
Packing group:	III

**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:	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). Phosphoric acid, manganese salt (CAS# 10124-54-6).
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

CEPA DSL/NDL Status:	One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-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:** New information added in Section(s): 1, 4 and 13.

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