

**Gardo<sup>®</sup> TP 10606/7**Version 1.1  
Revision Date 10/02/2007

Print Date 10/02/2007

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Gardo<sup>®</sup> TP 10606/7  
 MSDS Number : REL\_11211

Company : OAKITE PRODUCTS INC  
 675 Central Avenue  
 New Providence, NJ 07974

Telephone : +18005264473  
 Telefax : +19084644658  
 Emergency telephone no : CHEMTREC - 800-424-9300

**SECTION 2. HAZARDOUS COMPONENTS INFORMATION**

Component	CAS-No.	Weight %
Chromium (III) phosphate	7789-04-0	10.00 - 20.00
Chromium (III) Trifluoride	7788-97-8	1.00 - 5.00
Hydrofluoric Acid	7664-39-3	1.00 - 5.00

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

**SECTION 3. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid  
 Colour : green  
 Odour : acrid  
 Hazard Summary : Causes severe burns. Liquid or vapor causes burns which may be delayed. Also harmful by inhalation and if swallowed.

Route(s) of Entry	Inhalation	Skin	Ingestion
	yes	yes	yes

## Carcinogenicity:

NTP No substance in this product is listed by NTP as a carcinogen  
 IARC No substance in this product is listed by IARC as a carcinogen  
 OSHA No substance in this product is regulated by OSHA as a carcinogen

**SECTION 4. FIRST AID MEASURES**

Inhalation : If inhaled, remove to fresh air. If symptoms persist, call a

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Skin contact	:	physician If breathing is irregular or stopped, administer artificial respiration  Wash off immediately with plenty of water for at least 15 minutes Pay particular attention to skin under nails. Take off contaminated clothing and shoes immediately Get medical attention immediately if irritation develops and persists
Eye contact	:	Rinse immediately with plenty of water for at least 15 minutes Keep eye wide open while rinsing Get medical attention immediately
Ingestion	:	Rinse mouth Give several glasses of water to drink followed by milk of magnesia. Never give anything by mouth to an unconscious person Get medical attention immediately

**SECTION 5. FIRE-FIGHTING MEASURES**

Flash point	:	Note: does not flash
Lower explosion limit	:	Note: not applicable
Upper explosion limit	:	Note: not applicable
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Methods for cleaning up	:	Clean up with inert absorbant material. Cover with dry sodium carbonate. Keep in suitable, closed containers for disposal.
Additional advice	:	Never return spills in original containers for re-use.

**SECTION 7. HANDLING AND STORAGE**

**Storage**

Requirements for storage areas and containers	:	KEEP FROM FREEZING Keep containers tightly closed in a cool, well-ventilated place.
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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component	ACGIH TLV (TWA)	OSHA PEL (TWA)
Chromium (III) phosphate	0.5 mg/m <sup>3</sup> as CrN.D.	0.5 mg/m <sup>3</sup> as CrN.D.
Chromium (III) Trifluoride	0.5 mg/m <sup>3</sup> as CrN.D.	0.5 mg/m <sup>3</sup> as CrN.D.
Hydrofluoric Acid	2.3 mg/m <sup>3</sup> ceilingN.D.	3 ppm N.D.

- Eye protection : Chemical resistant goggles must be worn.  
face-shield
- Hand protection : impervious gloves
- Skin and body protection : complete suit protecting against chemicals
- Respiratory protection : If the occupational exposure limits cannot be met, suitable  
respiratory equipment should be worn .
- Hygiene measures : Avoid contact with skin, eyes and clothing  
Wear suitable gloves and eye/face protection  
Wear suitable protective clothing  
Wash hands before breaks and immediately after handling the  
product  
Provide adequate ventilation  
Do not inhale fumes  
Keep away from food and drink

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- pH : < 2.5
- Melting point/range : 0 °C (0 °C)
- Boiling point/range : Note: no data available
- Vapour pressure : Note: no data available
- Bulk density : 10.27 lb/gal
- Water solubility : Note: completely soluble

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Partition coefficient (n-octanol/water) : Note: no data available

Percent of Volatile by Weight excluding water : 0

Relative density : 1.231

Evaporation rate : 1  
Note: Water = 1

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid : freezing

Materials to avoid : bases  
Warning! Do not use together with other products; may release dangerous gases (chlorine).  
Avoid prolonged contact of concentrate with glass, ceramic, or concrete.

Hazardous decomposition products : Acidic fumes  
hydrogen fluoride  
oxides of phosphorus  
hydrogen, by reaction with metals

**SECTION 11. TOXICOLOGICAL INFORMATION**

Toxicity: : Mixture; Not Determined.

**Acute toxicity (other route)**Hydrofluoric Acid : LD50, rat, Intraperitoneal  
Dose: 25 mg/kg**SECTION 12. ECOLOGICAL INFORMATION**

Not Available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Advice on Disposal : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

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**SECTION 14. TRANSPORT INFORMATION**

Refer to Bill of Lading.

**SECTION 15. REGULATORY INFORMATION**

<b>TSCA Status</b>	:	All components of this material comply with US TSCA requirements.	
<b>SARA 313 Components</b>	:	Chromium (III) phosphate	CAS-No. 7789-04-0
	:	Chromium (III) Trifluoride	CAS-No. 7788-97-8
<b>SARA 313 Components</b>	:	Hydrofluoric Acid	CAS-No. 7664-39-3
	:	N.D.	
<b>CERCLA Reportable Quantity</b>	:	Chromium (III) phosphate	10 Pounds
	:	Chromium (III) Trifluoride	10 Pounds
	:	Hydrofluoric Acid	100 Pounds
<b>California Prop. 65</b>	:	N.D	
<b>NFPA</b>	:	3 0 0 Corrosive Acid	
<b>HMIS</b>	:	3 0 0 J	
<b>WHMIS</b>	:	E: Corrosive Material	

**SECTION 16. OTHER INFORMATION**

**Further information**

Oakite Products, Inc. warrants that the products described herein will conform with its published specifications. The products supplied by Oakite and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Oakite materials for their own particular purpose. Since buyer's conditions of use of products are beyond Oakite's control, Oakite does not warrant any recommendations and information for the use of such products. OAKITE DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.