

DATE: April 1, 2010

REVISION: 12

## MATERIAL SAFETY DATA SHEET

HF scientific, inc.  
3170 Metro Parkway  
Fort Myers, FL 33916-7597  
(239) 337-2116

24 Hour Emergency  
Telephone Number  
CHEMTREC  
1-800-424-9300

### SECTION 1 PRODUCT IDENTIFICATION:

**PRODUCT NAME: DPD FREE CHLORINE REAGENT**

**CATALOG NUMBERS:**

HF scientific, inc.:	10119	10307	10425	10445A	10501	10505T
	10188	10312	10426	10445V	10504	10517
	10300	10313	10439A	10447A	10504C	10519
	10301	10403	10440	10500	10504T	11921
	10306	10405	10441	10500C	10505	

For products with lot numbers above 21000

USA BlueBook	34441	34442	34443	34444	34451	34452
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**CHEMICAL FAMILY:** Not applicable

**SYNONYMS:** Not applicable

#### FORMULA:

Carboxylate Salt	Confidential
Sodium Phosphate, Dibasic	CAS # 7558-79-4
EDTA	CAS # 6381-92-6
DPD Salt	Confidential

### SECTION 2 HAZARDOUS INGREDIENTS

Hazardous	OSHA PEL	ACGIH TLV	Other Limits
<u>Ingredient(s):</u>			<u>Recommended</u>
DPD* Salt		Not established	None
*(N,N-Diethyl-p-Phenylenediamine)			

### SECTION 3 PHYSICAL DATA

**BOILING POINT (F):** Not applicable  
**SOLUBILITY IN WATER:** Soluble  
**VAPOR PRESSURE (mm Hg):** Not applicable  
**MELTING POINT:** Not found - Decomposes  
**APPEARANCE AND ODOR:** White to pale pink powder, no odor  
**VAPOR DENSITY (AIR=1):** Not applicable  
**SPECIFIC GRAVITY (H<sub>2</sub>O =1):** Not available  
**EVAPORATION RATE:** Not applicable

### SECTION 4 FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (METHOD USED):** Not flammable  
**FLAMMABLE LIMITS:**  
**LEL:** Not applicable      **UEL:** Not applicable  
**EXTINGUISHING MEDIA:** Water, dry chemical, alcohol foam, or carbon dioxide.  
**FIRE FIGHTING PROCEDURES:** Suitable to cause of fire. Wear protective clothing and self-contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** May emit toxic fumes.

### SECTION 5 HEALTH HAZARD EFFECTS AND FIRST AID

**ROUTE(S) OF ENTRY:** Inhalation? Yes. Skin? Yes. Ingestion? Yes.  
**HEALTH HAZARDS (ACUTE AND CHRONIC):** Irritating to eyes and respiratory tract. May cause allergic skin reaction.  
**CARCINOGENICITY:** NTP? IARC Monographs? OSHA Regulated?  
Not listed  
**SIGNS AND SYMPTOMS OF EXPOSURE:** Moderately toxic. Rash, irritation of eyes and respiratory tract. May be absorbed through skin and may be sensitizing to skin.  
**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**  
Allergy or sensitivity to salts of DPD.

### EMERGENCY FIRST AID PROCEDURES:

**Eye And Skin Exposure:** Immediately flush eyes with water for 15 minutes. Call physician. Wash skin with soap and plenty of water.  
**Ingestion:** Give large quantities of water or milk. Call physician immediately.  
**Inhalation:** Remove to fresh air.

### SECTION 6 REACTIVITY DATA

**STABILITY:** Stable under normal conditions of use and storage  
**CONDITIONS TO AVOID:** Exposure to light, heat, and moisture.  
**INCOMPATIBILITIES (MATERIALS TO AVOID):** Strong oxidizing agents  
**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Toxic fumes  
**HAZARDOUS POLYMERIZATION:** Will not occur

### SECTION 7 SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**  
Scoop into a beaker and dissolve in water.  
**WASTE DISPOSAL METHOD:** DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.  
**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only with adequate ventilation. Store in a cool, dry, dark place.  
**OTHER PRECAUTIONS:** None

### SECTION 8 CONTROL MEASURES

**RESPIRATORY PROTECTION:** Not necessary in normal use.  
**VENTILATION SYSTEMS:** General mechanical ventilation satisfactory in normal use.  
**EYE PROTECTION:** Safety glasses  
**SKIN PROTECTION:** Rubber gloves  
**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Lab coat, eye wash, safety shower  
**WORK/HYGIENIC PRACTICES:** Wash well after handling. Avoid skin contact.

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