

**MATERIAL SAFETY DATA SHEET**

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**1. PRODUCT IDENTIFICATION**

CATALOG NO.: R-0870  
PRODUCT NAME: DPD Powder  
CHEMICAL FAMILY: Inorganic/organic salt mixture

**2. INGREDIENTS**

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Potassium phosphate	7778-77-0	<65	Irritant
Sodium phosphate	7558-79-4	<35	Irritant
Ethylenediaminetetra- acetic acid	60-00-4	<2	Irritant
N,N-Diethyl-p-phenylene- diamine sulfate	6283-63-2	<2	Irritant, toxic
Inorganic salt (trade secret)	Confidential	<5	Irritant
Organic acids (trade secret)	Confidential	<5	Irritant

**3. PHYSICAL/CHEMICAL CHARACTERISTICS**

STATE: Solid APPEARANCE: Off-white powder ODOR: None  
BOILING PT (F): NA pH: NA SPECIFIC GRAVITY: NA  
VAPOR PRESSURE (mm Hg): NA VAPOR DENSITY (AIR=1): NA  
PERCENT VOLATILE BY VOLUME: NA SOLUBILITY IN WATER: >95%

**4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA**

FLASH PT: NA METHOD: NA  
FLAMMABLE LIMITS: LEL: NA UEL: NA  
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam  
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing  
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of phosphorus oxides, sodium oxide.  
NFPA CODE: Health: 0 Flammability: 0 Reactivity: 0 Specific: NA  
CONDITIONS TO AVOID: Extreme heat, temperatures.

**5. HEALTH HAZARD DATA**

INGREDIENT: Potassium phosphate  
TOXICITY: LDLo(ori-rat): 4640 mg/kg  
PEL: NE TLV: NE  
STEL: NE  
INGREDIENT: Sodium phosphate  
TOXICITY: LD50(ori-rat): 12900 mg/kg  
PEL: NE TLV: NE  
STEL: NE

**5. HEALTH HAZARD DATA - continued**

INGREDIENT: N,N-Diethyl-p-phenylenediamine sulfate

TOXICITY: LD50(unr-rat): 450 mg/kg

PEL: NE TLV: NE

STEL: NE

ROUTE(S) OF ENTRY: Inhalation X Ingestion X Skin X

TARGET ORGAN(S): Eyes, skin, respiratory tract

CARCINOGENICITY: NTP No IARC No OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant.

SKIN: Irritant.

INGESTION: Irritant, toxic. May cause gastrointestinal irritation, nausea, diarrhea.

INHALATION: Irritant, toxic. May cause irritation of respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, and respiratory conditions

**6. PRECAUTIONARY MEASURES**

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat, dust mask, adequate ventilation

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

STORAGE: Cool, dry, well-ventilated area. Avoid direct sunlight.

**7. EMERGENCY AND FIRST AID PROCEDURES**

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.

INGESTION: Give large amounts of water. Call physician. Induce vomiting under direction of physician. DO NOT induce vomiting or give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.

INHALATION: Remove to fresh air. Call physician.

**8. SPILL AND DISPOSAL PROCEDURES**

SPILL OR RELEASE: Sweep up. Avoid raising dust. Containerize for later disposal.

DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

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NA = Not applicable

ND = Not determined

NE = Not established

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This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

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