

MATERIAL SAFETY DATA SHEET  
TAYLOR TECHNOLOGIES, INC.

MSDS 0001

R-0001

MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC  
31 LOVETON CIRCLE  
SPARKS, MD 21152  
TELEPHONE: 410-472-4340

1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0001  
PRODUCT NAME: DPD Reagent #1  
CHEMICAL FAMILY: Inorganic salt solution

2. INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Potassium phosphate	7778-77-0	<10	Irritant
Sodium phosphate	7558-79-4	<10	Irritant
Sodium hydroxide	1310-73-2	<1	Irritant alkali
Deionized water	7732-18-5	to 100	None

3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None  
BOILING PT (F): 212 pH: 10 SPECIFIC GRAVITY: 1.24  
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .64  
PERCENT VOLATILE BY VOLUME: 68 SOLUBILITY IN WATER: Soluble

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  
NFPA CODE: Health: 0 Flammability: 0 Reactivity: 0 Specific: NA  
CONDITIONS TO AVOID: Extreme heat, temperatures.

5. HEALTH HAZARD DATA

INGREDIENT: Sodium hydroxide  
TOXICITY: LD50(oral-rat): 140-340 mg/kg  
PEL: 2 mg/m3 TLV: 2 mg/m3  
STEL: NE

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

TARGET ORGAN(S): Eyes, skin

CARCINOGENICITY: NTP No IARC No OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant

SKIN: Irritant

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

INHALATION: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat  
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing

**MATERIAL SAFETY DATA SHEET**  
**TAYLOR TECHNOLOGIES, INC.**

MSDS 0001

chemical. Wash thoroughly after handling.  
STORAGE: Cool, dry area. Avoid direct sunlight.

**7. EMERGENCY AND FIRST AID PROCEDURES**

**EYE AND SKIN CONTACT:** Immediately flush eyes with water for 15 minutes.  
Call physician. Wash skin thoroughly with soap and water.  
**INGESTION:** Give large amounts of water. Call physician. DO NOT INDUCE  
VOMITING.  
**INHALATION:** NA

**8. SPILL AND DISPOSAL PROCEDURES**

**SPILL OR RELEASE:** Absorb with vermiculite or other inert material.  
Containerize for later disposal.  
**DISPOSAL:** Incineration or other method to comply with all local, state,  
and federal regulations.

**9. TRANSPORTATION DATA (U.S. - SURFACE)**

**PROPER SHIPPING NAME:** Not regulated  
**HAZARD CLASS:** NA  
**IDENTIFICATION NO.:** NA

NA = Not applicable  
ND = Not determined  
NE = Not established

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.

DATE PREPARED: February 1992