

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006  
OSHA Regulation 29 CFR 1910.1200  
Canadian Regulation SOR/88-66

**Revision Date:** 2010-12-01  
**Reason for Revision:** Regulation (EC) No. 1272/2008 Compliance

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** HI 70452-0 DPD Reagent

**Application:** Determination of Free Chlorine in Water Samples

**Company Information (USA):**

Hanna Instruments, Inc.  
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

**Technical Service Contact Information:**

1-800-426-6287 (8:30AM - 5:00PM ET)  
+1-401-766-4260 (8:30AM - 5:00PM ET)

**USA Emergency Contact Information:**

1-800-424-9300 (Chemtrec 24Hr. Emergency)

**International Emergency Contact Information:**

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

**E-mail Address:**

tech@hannainst.com

## SECTION 2: HAZARD IDENTIFICATION

Harmful in contact with skin and if swallowed.

**According to Regulation (EC) No. 1272/2008:**

**Classification:** Acute Toxicity, Oral (Category 4)  
Acute Toxicity, Dermal (Category 4)

**Signal Word:** Warning

**Pictograms:**



**Hazard Statements:** H302: Harmful if swallowed.  
H312: Harmful in contact with skin.

**Precaution Statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

**According to Directives 67/548/EEC and 1999/45/EC:**

**Symbol:** Xn: Harmful

**R-phrases:** 21/22: Harmful in contact with skin and if swallowed.

**S-phrases:** 36/37: Wear suitable protective clothing and gloves.

## SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
N,N-Diethyl-1,4-phenylenediammonium sulfate	228-500-6	6283-63-2	Acute Tox. 4 Xn	H302, H312 R: 21/22	-

## SECTION 4: FIRST AID MEASURES

**After Inhalation:** Remove to fresh air.

**After Skin Contact:** Wash affected area with plenty of water. Remove contaminated clothing.

**After Eye Contact:** Rinse out immediately with plenty of water and seek medical advice.

**After Swallowing:** Drink plenty of water (if necessary several liters). Seek medical advice.

**General Information:** Remove contaminated, soaked clothing immediately and dispose of safely.

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## **SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Water, Carbon Dioxide, Foam, Powder

**Special Risks:**

Development of hazardous combustion gases or vapors possible in the event of fire. Hydrogen may form upon contact with metals (danger of explosion!). The following may develop in event of fire: Nitrous Gases, Sulfur Oxides

**Special Protective Equipment:**

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

**Additional Information:**

Product itself is non-combustible. Cool container with spray water from a safe distance. Contain escaping vapors with water.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Environmental Precautions:**

Do not discharge into the drains/surface waters/groundwater.

**Additional Notes:**

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

## **SECTION 7: HANDLING AND STORAGE**

**Handling:**

Avoid generation of dusts. Do not inhale substance.

**Storage:**

Tightly closed. In a well-ventilated place at +15 to +25 °C, protected from light.

## **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**Engineering:**

Safety shower and eye wash.

**Personal Protective Equipment:**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

**Respiratory Protection:**

Required when dusts are generated.

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Change contaminated clothing. Wash hands after working with substance.

## **SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:**

White powder

**Odor:**

Odorless

**Density at 20 °C:** NA

**Melting Point:**

> 180 °C

**Boiling Point:**

ND

**Solubility:** Soluble

**pH at 20 °C:**

2.1 @ 50 g/L

**Explosion Limit:**

NA

**Flash Point:** NA

**Thermal Decomp.:**

ND

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## **SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

Strong Heating

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

Strong oxidizing agents

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Product Toxicity**

Acute toxicity

LD50 (oral, rat): 497 mg/kg.

Specific symptoms in animal studies:

Eye irritation test (rabbit): Slight irritations.

Further toxicological information

After inhalation of dust: Irritation symptoms in the respiratory tract.

After skin contact: Slight irritations. Sensitization possible in predisposed persons. Danger of skin absorption.

After eye contact: Slight irritations.

Systemic effects:

Risk of methaemoglobin formation also after skin contact.

The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms, principal symptom: cyanosis (blue discoloration of the blood).

**Potential Health Effects:****Inhalation:** After inhalation of dusts: irritation symptoms in the respiratory tract.**Skin Contact:** Slight irritations. Sensitization possible in predisposed persons.**Eye Contact:** Slight irritations.**Ingestion:** Damage to the affected mucous membranes possible. Cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms.**Further Data:** The product should be handled with the usual care when dealing with chemicals.**Component Toxicity****Acute Toxicity:**

Not Available

**Chronic Toxicity:**

Not Available

**Additional Data:**

Not Available

## **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

**Further Data:** Do not allow to enter waters, waste waters, or soil!

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

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Not subject to transport regulations

**Sea:**

Not subject to transport regulations

**Air:**

Not subject to transport regulations

**SECTION 15: REGULATORY INFORMATION**

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.  
Complies with European Council Directives 67/548/EEC and 1999/45/EC.  
Complies with OSHA Regulation 29 CFR 1910.1200.  
Complies with Canadian Regulation SOR/88-66

**SECTION 16: OTHER INFORMATION*****Text of phrases under Section 3***

R21/22: Harmful in contact with skin and if swallowed.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.

***Revision Information***

**Revision Date:** 2010-12-01  
**Supersedes edition of:** 2009-06-10  
**Reason for revision:** Regulation (EC) No. 1272/2008  
Compliance

***Legend***

NA: Not Applicable  
ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.**