

**Revision Date:** 2009-06-10  
**Reason for Revision:** 29 CFR 1910.1200 and SOR/88-66 Compliance

## **SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY**

**Product Name:** HI 3864A-0 Phenol Reagent A

**Application:** Determination of Phenol 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 if swallowed. Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

<b>Component:</b>	EDTA Tetrasodium Salt Dihydrate	4-Amino-2,3-Dimethyl-1-Phenyl-3-Pyrazolin-5-One
<b>EC-No.:</b>	200-573-9	201-452-3
<b>CAS-No.:</b>	10378-23-1	83-07-8
<b>Hazard:</b>	Xn	Xn
<b>Phrases:</b>	R: 22-36-52/53	R: 22
<b>Content:</b>	> 70% - < 95%	> 15% - < 25%

## **SECTION 4: FIRST AID MEASURES**

**After Inhalation:** Remove to fresh air. Give artificial respiration if victim is not breathing. Give oxygen if breathing is difficult.

**After Skin Contact:** Flush affected area with copious amounts of water for at least 15 minutes.

**After Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**After Swallowing:** Make victim drink plenty of water, induce vomiting, call in physician.

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

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

**Suitable Extinguishing Media:**

Water Spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam

**Special Risks:**

Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Nitrogen Oxides, Nitrous Gases

**Special Protective Equipment:**

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

**Additional Information:**

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

# Safety Data Sheet

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

## **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. Clean up affected area and dispose according to local regulation.

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

**Handling:**

Do not breathe dust.

**Storage:**

Store at room temperature (+15°C to + 25°C).

## **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. The resistance of the protective clothing to chemicals should be determined with the respective supplier.

**Respiratory Protection:**

Required when dusts are generated.

**Protective Gloves:**

Compatible chemical-resistant gloves

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Change contaminated clothing. Application of skin-protective barrier cream recommended. Wash hands after working with substance.

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

**Appearance:** White powder

**Odor:** Odorless

**Density at 20° C:** ND

**Melting Point:** ND

**Boiling Point:** NA

**Solubility:** Soluble

**pH at 20° C:** ~ 10.5 at 10 g/L in water

**Explosion Limit:** NA

**Flash Point:** NA

**Thermal Decomp.:** NA

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

**Conditions to be Avoided:**

Heating

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

Toxic gases: See section 5.

**Substances to be Avoided:**

Oxidizing agents

**Safety Data Sheet**According to Regulation (EC) No. 1907/2006  
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Quantitative data on the toxicity of this product is not available.

**Potential Health Effects:**

- Inhalation:** Irritations of the mucous membranes, coughing, and dyspnoea.  
**Skin Contact:** Irritations.  
**Eye Contact:** Irritations.  
**Ingestion:** Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.  
**Further Data:** Further hazardous properties cannot be excluded. 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:****APPLICABLE TO PARTIAL COMPONENT:**

The following applies to EDTA tetrasodium salt dihydrate, as the pure substance:

Acute toxicity

LD50 (oral, rat): 1000-2000 mg/kg.

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations.

Skin irritation test (rabbit): No irritation.

**APPLICABLE TO PARTIAL COMPONENT:**

The following applies to 4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one – as the pure substance:

LD50 (oral, rat): 1700 mg/kg.

Subacute to chronic toxicity

Bacterial mutagenicity: Salmonella typhimurium: positive.

**SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the toxicity of this product is not available.

**APPLICABLE TO PARTIAL COMPONENT:**

The following applies to EDTA tetrasodium salt dihydrate – as the pure substance:

Ecotoxic effects:

Biological effects:

Harmful effect on aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Fish toxicity: *L. idus* LC50 : >500 mg/L /96 h.Daphnia toxicity: *Daphnia magna* EC50 : >100 mg/L /24 h.

Algal toxicity: algae IC50 : 10-100 mg/L /72 h.

**Further Data:** A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal. 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.**SECTION 14: TRANSPORTATION INFORMATION****Land:**ADR/RID: 9, PGII  
UN-No.: UN3316  
Name : CHEMICAL KIT**Sea:**IMDG: 9/UN3316/PG II  
Name : CHEMICAL KIT  
Marine pollutant: no**Air:**ICAO/IATA: 9/UN3316/PG II  
Name: CHEMICAL KIT

Transport data applies to the COMPLETE KIT!

**Safety Data Sheet**According to Regulation (EC) No. 1907/2006  
OSHA Regulation 29 CFR 1910.1200  
Canadian Regulation SOR/88-66**SECTION 15: REGULATORY INFORMATION****Labeling according to EC Directives:****Symbol:** Xn: Harmful**R-phrases:** 22-36-52/53: Harmful if swallowed. Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**S-phrases:** 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**Contains:** 4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one**SECTION 16: OTHER INFORMATION****Text of R-phrases under Section 3**22: Harmful if swallowed.  
36: Irritating to eyes.  
52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Revision Information****Revision Date:** 2009-06-10  
**Supersedes edition of:** 2008-12-01  
**Reason for revision:** 29 CFR 1910.1200 and SOR/88-66 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.**