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Free Chlorine Reagent Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Revision Date: 2008-12-01

Reason for Revision: REACH Compliance and General Update

<u>SECTION 1:</u> IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name:HI 93701-0 Free Chlorine ReagentAdditional Product Codes: HI 93701-01Application:Determination of Chlorine in Water SamplesHI 93701-03
HI 38018-200

Company Information (USA):

Hanna Instruments, Inc.

584 Park East Dr, Woonsocket, Rhode Island, USA 02895

1-800-426-6287 (8:30AM - 5:00PM ET)

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

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

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tech@hannainst.com

E-mail Address:

International Emergency Contact Information:

USA Emergency Contact Information:

Technical Service Contact Information:

SECTION 2: HAZARD IDENTIFICATION

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: N, N-Diethylaniline-1,4-

Phenylenediammonium Sulfate

EC-No.:

228-500-6

CAS-No.:

6283-63-2

Hazard:

Xn Phrases:

R: 21/22

Content:

> 1% - < 10%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Obtain medical attention if feeling unwell.

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

After Eye Contact: Rinse out with plenty of water. If pain persists, summon medical advice.

After Swallowing: Drink plenty of water, induce vomiting. Obtain medical attention.

General Information:

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: 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:

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



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

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

Environmental Precautions:

NA

Additional Notes:

Take up dry. Clean up affected area and dispose according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Avoid generation of dusts. Do not inhale substance. Store at room temperature (+15 to +25 °C). Tightly closed in a dry

and well-ventilated place. Protect from light and moisture.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients:

Engineering:

Maintain general industrial hygiene practice.

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: Protective Gloves: Eye Protection:

Required when dusts are generated. Rubber or plastic Goggles or face mask

Work under hood.

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:White powderOdor:OdorlessDensity at 20° C: NDMelting Point:NA (decomposition)Boiling Point:NASolubility:Soluble

pH at 20° C: 6.0 – 6.5 at 10 g/L **Explosion Limit:** NA **Flash Point:** NA

Thermal Decomp.: NA

Further Information:

Not available

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Strong heating, light exposition. In the event of fire: See section 5.

*Hazardous Polymerization: Substances to be Avoided:

dustances to be Avoided

Will not occur.

Alkali metals, ammonia, halogen-halogen compounds, fluorine, hydrogen

peroxide, strong oxidizing agents



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SECTION 11: TOXICOLOGICAL INFORMATION

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

APPLICABLE TO MAIN COMPONENT:

The following apply to N, N-Diethylaniline-1,4-phenylenediammonium sulfate as the pure substance:

Acute toxicity

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

Specific symptoms in animal studies: Eye irritation test (rabbit): Slight irritations.

In Case of Inhalation: Possible symptoms are: respiratory tract irritations.

In Case of Skin Contact: Slight irritations. Sensitization with allergic manifestations possible in predisposed persons. Skin absorption of

some components.

In Case of Eye Contact: Slight irritations.

In Case of Ingestion:

Further Data: 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). The product should be handled with the usual care when dealing with chemicals.

Property of this product must be anticipated on the basis from the components of the preparation:

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available. A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

Further Data: Depending on the concentration, it may contribute to the eutrophication of water supplies. No ecological problems are to be

expected when the product is handled and used with due care and attention

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: Sea: Air:

Not subject to transport regulations. Not subject to transport regulations. Not subject to transport regulations.

SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: Non-hazardous according to Directives 67/548/EEC and 1999/45/EC.

R-phrases:

S-phrases: 22-24/25: Do not breathe dust. Avoid contact with skin and eyes.

Contains:



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SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

Revision Information

Legend

21/22: Harmful in contact with skin and if

Revision Date:

2008-12-01

NA: Not Applicable

swallowed.

Supersedes edition of:

2006-12-06

ND: Not Determined

Reason for revision: REACH Compliance and General Update

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.