

HACH COMPANY -- DPD FREE CHLORINE REAGENT

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MSDS Safety Information  
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FSC: 6810  
NIIN: 01-242-5750  
MSDS Date: 11/19/2000  
MSDS Num: CLCGG  
Product ID: DPD FREE CHLORINE REAGENT  
MFN: 01  
Responsible Party  
Cage: 91224  
Name: HACH COMPANY  
Address: 5600 LINDBERGH DR  
Box: 389  
City: LOVELAND CO 8053  
9  
Info Phone Number: 970-669-3050  
Emergency Phone Number: (303)623-5716 / (515) 232-2533  
Resp. Party Other MSDS No.: M00109  
Proprietary Ind: Y  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: 91224  
Name: HACH CO  
Address: 5600 LINDBERGH DR  
Box: 389  
City: LOVELAND CO 80539  
Phone: 970-669-3050/ 303-623-5716

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Item Description Infor  
mation  
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Item Name: POWDER PILLOWS,CHLORINE REAGENT  
Specification Number: NONE  
Type/Grade/Class: NONE  
Unit of Issue: PG  
Quantitative Expression: 00000000100EA  
UI Container Qty: 1  
Type of Container: BOX

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Ingredients  
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Name: \*\*\* PROPRIETARY \*\*\*  
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Healt

## h Hazards Data

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Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: EYE: MAY CAUSE IRRITATION. SKIN: MAY CAUSE IRRITATION. MAY CAUSE ALLERGIC REACTION. INGESTION: DPD ORAL RAT LD50 STUDIES REVEALED DECREASED LOCOMOTOR ACTIVITY, DEPRESSED RESPIRATION, MUSCLE SPASMS, LOSS OF RIGHTING REFLEX AND DEATH. AUTOPSIES REVEALED ULCERATED STOMACH, ENTERITIS, GAS AND CONGESTED LUNGS. INHALATION: RESPIRATORY TRACT IRRITATION.

### EFFECTS

SIMILAR TO THOSE OF INGESTION. CHRONIC EFFECTS: DPD MAY CAUSE ALLERGIC SKIN REACTION IN SOME PEOPLE CAUSING SEVERE SKIN RASHES AND ITCHING.

Explanation Of Carcinogenicity: THIS PRODUCT DOES NOT CONTAIN ANY OSHA LISTED CARCINOGENS. THIS PRODUCT DOES NOT CONTAIN ANY IARC AND NTP LISTED CHEMICALS.

Signs And Symptoms Of Overexposure: EYE/SKIN: IRRITATION, SKIN ALLERGIC REACTION. INGESTION: DECREASED LOCOMOTOR ACTIVITY, DEPRESSED RESPIRATION, MUSCLE SPASMS, LOSS OF RIGHTING REFLEX

AND DEATH. INHALATION: RESPIRATORY

TRACT IRRITATION. CHRONIC EFFECTS: DPD MAY CAUSE ALLERGIC SKIN REACTION IN SOME PEOPLE CAUSING SEVERE SKIN RASHES AND ITCHING.

Medical Cond Aggravated By Exposure: ALLERGY OR SENSITIVITY TO SALTS OF N, N-DIETHYL-P-PHENYLENEDIAMINE PREEXISTING EYE & SKIN CONDITIONS, RESPIRATORY CONDITIONS.

First Aid: EYE: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN: WASH SKIN WITH SOAP AND PLENTY OF WATER. CALL PHYSICIAN IF IRRITATION

DEVELOPS. INGESTION: GIVE 1-2 GLASSES OF WATER. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR.

## ===== Handling and Disposal

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Spill Release Procedures: STOP SPILLED MATERIAL FROM BEING RELEASED TO THE ENVIRONMENT. SCOOP UP SPILLED MATERIAL INTO A LARGE BEAKER & DISSOLVE W/ WATER. FLUSH REACTED MATERIAL TO THE DRAIN W/ A LARGE EXCESS OF WATER.

DECONTAMINATE THE AREA OF THE SPILL W/ A SOAP SOLUTION. EVACUATE AS NEEDED TO PERFORM SPILL CLEAN-UP. MIXTURE CONTAINS A COMPONENT WHICH IS REGULATED AS WATER POLLUTANT.

Waste Disposal Methods: DILUTE TO 3-5 TIMES THE VOLUME W/ COLD WATER. OPEN COLD WATER TAP COMPLETELY, SLOWLY POUR THE MATERIAL TO THE DRAIN. ALLOW COLD WATER TO RUN FOR 5 MINS. TO COMPLETELY FLUSH THE SYSTEM. THESE DISPOSAL GUIDELINES ARE BASED ON FEDERAL REGULATIONS & MAY BE SU

PERSEDED BY MORE STRINGENT

STATE/LOCAL REQUIR EMENTS. CONSULT YOUR LOCAL ENVIRO REGULATION.

Handling And Storage Precautions: AVOID CONTACT WITH EYES, SKIN, CLOTHING. DO NOT BREATHE DUST. WASH THOROUGHLY AFTER HANDLING. MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT. STORE BETWEEN 10C AND 25C. PROTECT FROM LIGHT, MOISTURE, HEAT.

Other Precautions: ONLY PERSONS PROPERLY QUALIFIED TO RESPOND TO AN EMERGENCY INVOLVING HAZARDOUS SUBSTANCES MAY RESPOND TO A SPILL A

CCORDING TO FEDERAL

REGULATION (OSHA 29 CFR 1910.120(A)(V) AND PER YOUR COMPANY'S EMER GENCY RESPONSE PLAN AND GUIDELINES/PROCEDURES.

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Fire and Explosion Hazard Information  
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Extinguishing Media: USE MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND AND FULL PROTECTIVE GEAR.

Unusual Fi

re/Explosion Hazard: TOXIC FUMES OF CARBON MONOXIDE, CARBON DIOXIDE, PHOSPHORUS OXIDES. FLAMMABLE PROPERTIES: CAN BURN IN FIRE, RELEASING TOXIC VAPORS.

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Control Measures  
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Respiratory Protection: ADEQUATE VENTILATION.

Ventilation: USE GENERAL VENTILATION TO MINIMIZE EXPOSURE TO MIST, VAPOR OR DUST.

Protective Gloves: DISPOSABLE LATEX GLOVES

Eye Protection: SAFETY GLASSES WITH TOP A ND SIDE SHIELDS

Other Protective Equipment: LAB COAT. HAVE A EYEWASH STATION AND SAFETY SHOWER NEARBY.

Work Hygienic Practices: MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT. AVOID CONTACT WITH EYES, SKIN, CLOTHING. DO NOT BREATHE DUST. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health: CATALOG NUMBER: 1407799

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Physical/Chemical Properties  
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HCC

: N1  
Melt/Freeze Pt: =110.C, 230.F  
M.P/F.P Text: DECOMP  
Spec Gravity: 1.76 (WATER=1)  
PH: 6.35 @25C  
Solubility in Water: SOLUBLE  
Appearance and Odor: WHITE OR LIGHT PINK POWDER; NO ODOR.

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Reactivity Data  
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Stability Indicator: YES  
Stability Condition To Avoid: EXPOSURE TO LIGHT. EXCESS MOISTURE. TEMPERATURES ABOVE 25C.  
Materials To Avoid: NONE REPORTED.  
Hazardous Decomposition Products:  
HEATING TO DECOMPOSITION RELEASES TOXIC &/OR  
CORROSIVE FUMES OF CARBON DIOXIDE, CARBON MONOXIDE, PHOSPHORUS OXIDES.  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information  
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Toxicological Information: PRODUCT LD50, LC50 = NONE REPORTED. DERMAL TOXICITY DATA: NONE REPORTED. MUTATION & REPRODUCTIVE EFFECTS DATA: NONE REPORTED. INGREDIENT TOXICOLOGICAL DATA: SALTS OF DPD ORAL RAT LD50 = 970 MG/KG. SODIUM PHOSPHAT DIBASIC ORAL RAT LD50= 17 G/KG. EDTA DISODIUM SALT ORAL RAT = 2000 MG/KG.

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Ecological Information  
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Ecological: NO ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT AND ITS INGREDIENTS.

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MSDS Transport Information  
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Transport Information: NOT CURRENTLY REGULATED.  
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Regulatory Information  
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Federal Regulatory Information: OSHA STATUS: THIS PRODUCT IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.  
State Regulatory Information: CALIFORNIA PROPOSITION 65: NO LISTED CHEMICALS ARE PRESENT IN THIS PRODUCT.  
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Other Information  
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Other Information: INTENDED USE: DETERMINATION OF FREE CHLORINE. RATINGS:  
HEALTH =2; FLAMMABILIT=1; REACTIVITY=0. NFPA RATINGS: HEALTH =1;  
FLAMMABILIT=1; REACTIVITY=0.  
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Transportation Information  
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Responsible Party Cage: 91224  
Trans ID NO: 156822  
Product ID: DPD F  
REE CHLORINE REAGENT  
MSDS Prepared Date: 11/19/2000  
Review Date: 04/24/2001  
MFN: 1  
Multiple KIT Number: 0  
Unit Of Issue: PG  
Container QTY: 1  
Type Of Container: BOX  
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Detail DOT Information  
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DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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Detail IMO Information  
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IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
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Detail IATA Information  
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IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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=====  
Detail AFI Information  
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AFI PSN Code: ZZZ  
AFI  
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Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: DPD FREE CHLORINE REAGENT

Cage: 91224

Company Name: HACH CO

Street: 5600 LINDBERGH DR

PO Box: 389

City: LOVELAND CO

Zipcode: 80539

Health Emergency Phone: (303)623-5716 / (515) 232-2533

Label Required IND: Y

Date Of Label Review: 04/24/2001

Status Code: A

Origination Code: F

Chronic Hazard IND

: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: MAY CAUSE EYES, SKIN, & RESPIRATORYTRACT

IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. FIRST AID:EYE: IMMEDIATELY

FLUSH EYES WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN: WASH SKIN WITH

SOAP AND PL ENTY OF WATER. CALL PHYSICIAN IF IRRITATION DEVELOPS. INGESTION:

GIVE 1-2 GLASSES OF WATER. CALL PHYSI

CIAN IMMEDIATELY. NEVER GIVE ANYTHING BY

MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRE SH AIR.

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