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HACH COMPANY

-- DPD FREE CHLORINE REAGENT

MSDS Safety Information

_____ 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 Contractor Summary Cage: 91224 Name: HACH CO Address: 5600 LINDBERGH DR Box: 389 City: LOVELAND CO 80539 Phone: 970-669-3050/ 303-623-5716 _____ Item Description Infor mation _____ 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 ______ Ingredients _________ Name: *** PROPRIETARY *** ------Healt

h Hazards Data

_____ _____ 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, LO SS 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 EFFE CTS: 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 Symptions 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 IRRITATIO N. 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 & amp; 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 **IRRITATIO** N 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 _____ Spill Release Procedures: STOP SPILLED MATERIAL FROM BEING RELEASED TO THE ENVIRONMENT. SCOOP UP SPILLED MATERIAL INTO A LARGE BEAKER & amp; DISSOLVE W/ WATER. FLUSH REACTED MATERIAL TO THE DR AIN W/ A LARGE EXCESSS OF WATER.

DECONT AMINATE 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 & amp; 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.

Fire and Explosion Hazard Information

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.

Control Measures

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

Physical/Chemical Properties

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. Reactivity Data _____ 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. Toxicological Information _____ Toxicological Information: PRODUCT LD50, LC50 = NONE REPORTED. DERMAL TOXICITY DATA: NONE REPORTED. MUTATION & amp; REPRODUCTIVE EFFECTS DATA: NONE REPORTED. INGRESIENT 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. _____ Ecological Information Ecological: NO ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT AND ITS IGREDIENTS. _____ **MSDS** Transport Information _____ _____ Transport Information: NOT CURRENTLY REGULATED.

Regulatory Information

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.

Other Information

Other Information: INTENDED USE: DETERMINATION OF FREE CHLORINE. RATINGS: HEALTH =2; FLAMMABILIT=1; REACTIVITY=0. NFPA RATINGS: HEALTH =1; FLAMMABILIT=1; REACTIVITY=0.

Transportation Information

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

Detail DOT Information

DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail IMO Information

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

Detail IATA Information

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail AFI Information

AFI PSN Code: ZZZ

AFI

Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

_____ 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, & amp; 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. _____ Disclaimer (provided with this information by the compiling agencies): This

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