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HACH CO

-- 2105669, DPD TOTAL CHLORINE REAGENT

MSDS Safety Information

MSDS Safety Information
FSC: 6810 NIIN: 01-183-4634 MSDS Date: 10/12/2000 MSDS Num: CLQTL Product ID: 2105669, DPD TOTAL CHLORINE REAGENT MFN: 01 Responsible Party Cage: 91224 Name: HACH CO Address: 5600 LINDBERGH DR Box: 389 City: LOVELAND C 0 80539 Info Phone Number: 970-669-3050/ 303-623-5716 Emergency Phone Number: 303-623-5716/515-232-2533 Resp. Party Other MSDS No.: M00110 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 Cage: 7Z016 Name: KAMPI COMPONENTS CO., INC. Address: 210 RT 13
Box: 721 City: BRISTOL PA 19007-3517 Phone: 215-736-2000 Contract Number: SP0450-02-M-M165
Item Description Information
Item Manager: S9G Item Name: POWDER PILLOWS,CHLORINE REAGENT Unit of Issue: BX Quantitative Expression: 0000000100PI UI Container Qty: 0 Type of Container: BOX

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Name: *** PROPRIETARY ***

Health Hazards Data

LD50 LC50 Mixture: ORAL,RAT,FEMALE, LD50: 4700 MG/KG

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: EYE CONTACT: MAY CAUSE IRRITATION. SKIN CONTACT: MAY CAUSE IRRITATION AND/OR ALLERGIC REACTION. SKIN ABSORPTION: NO EFFECTS ANTICIPATED. INGESTION: CAUSES: LETHARG

Y, LOSS OF STRENGTH, LOSS OF COORDINA TION,

DIFFICULT BREATHING, DIARRHEA. MAY CAUSE IODISM, SYMTOMS INCLUDE SKIN RASH, CONJUNCTIVITIS, RUNNING NOSE, SNEEZING, BRONCHITIS, HEADACHE, FEVER IRRITATION OF MUCOUS MEMBRANES. TARGET ORGANS: LIV ER. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION AND EFFECTS SIMILAR TO THOSE OF INGESTION. CHRONIC EFFECTS: CHRONIC OVEREXPOSURE MAY CAUSE ALLERGIC SKIN REACTIONS, HYPOTHYROIDISM, LIVER DAMAGE. DPD MAY (CONTD. SEE "TOXICOLOGICAL") Explanati

on Of Carcinogenicity: THIS PRODUCT DOES NOT CONTAIN ANY OSHA LISTED CARCINOGENS, ANY IARC LISTED CHEMICALS, OR ANY NTP LISTED CHEMICALS. ADDITIONAL CANCER / REPRODUCTIVE TOXICITY INFORMATION: MATERNAL INGESTION OF POTASSIU M IODIDE DURING PREGNANCY MAY CAUSE CONGENITAL GOITER AND HYPERTHYROIDISM IN THE NEWBORN INFANT.

Signs And Symptions Of Overexposure: EYE CONTACT: IRRITATION, SKIN CONTACT: IRRITATION, ALLERGIC REACTION. INGESTION: LETHARGY, LOSS OF STRENGTH, LOSS OF COORDINATION,

DIFFICULT BREATHING, DIARRHEA. IODISM WITH SKIN RASH,

CONJUNCTIVITIS, RUNNY NOSE, SNEEZING, BRONCHITIS, HEADACHE, FEVER, IRRITATION OF MUCOUS MEMBRANES. DPD ORAL RAT LD50 STUDIES REVEALED DECREASED LOCOMOTOR ACTIVITY, DEPRESSED RESPIRATION, MUSCLE SPASMS, LOSS OF RIGHT ING REFLEX AND DEATH. AUTOPSIES REVEALED ULCERATED STOMACH, ENTERITIS, GAS AND CONGESTED LUNGS. INHALATION: RESPIRATORY TRACT IRRITATION. EFFECTS SIMILAR TO THOSE OF INGESTION.

Medical Cond Aggravated By Exposure: AL

LERGY TO DPD. PRE-EXISTING EYE

CONDITIONS, SKIN CONDITIONS, RESPIRATORY CONDITIONS. PERSONS WITH PREEXISTING RESPIRATORY CONDITIONS MAY BE MORE SUSCEPTIBLE TO EFFECTS OF POTASSIUM IODODE EXPOSURE.

First Aid: EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN CONTACT: 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 UNCONSC IOUS PERSON. INHALTION: REMOVE TO FRESH AIR.

Handling and Disposal

Spill Release Procedures: STOP SPILL. SCOOP UP INTO LARGE BEAKER AND DISSOLVE WITH WATER. FLUSH REACTED MATERIAL TO DRAIN WITH LARGE EXCESS OF WATER. DECONTAMINATE AREA WITH SOAP SOLUTION. ONLY PERSONS QUALIFIED TO RESPOND T O EMERGENCY INVOLVING HAZARDOUS SUBSTANCES MAY RESPOND TO A SPILL ACCORDING TO FEDER

AL REGULATIONS (OSHA 29 CFR 1910.120(A)(V) AND PER YOUR COMPANY'S EMERGENCY RESPONSE PLAN .

Waste Disposal Methods: DILUTE TO 3 TO 5 TIMES THE VOLUME WITH COLD WATER. OPEN COLD WATER TAP COMPLETELY, SLOWLY POUR THE MATERIAL TO THE DRAIN. ALLOW COLD WATER TO RUN FOR 5 MINUTES TO COMPLETELY FLUSH THE SYSTEM. EMPTY CO NTAINERS: RINSE THREE TIMES WITH APPROPRIATE SOLVENT. DISPOSE OF EMPTY CONTAINER AS NORMAL TRASH. TH ESE DISPOSAL GUIDELINES (CONTD. SEE "OTHER INFO")

Fire and Explosion Hazard Information

Autoignition Temp Text: N/D

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. DURING A FIRE, THIS

PRODUCT DECOMPOSES TO FORM TOXIC GASES. HAZARDOUS COMBUSTION PRODUCTS: TOXIC

FUMES OF: CARBON MONOXIDE, CARBON DIOXID

E, IODINE COMPOUNDS, PHOSPHORUS

OXIDES, POTASSIUM OXIDES, SODIUM MONOXIDE.

Unusual Fire/Explosion Hazard: FIRE/EXPLOSION HAZARD: NONE REPORTED. STATIC DISCHARGE: NONE REPORTED. MECHANICAL IMPACT:NONE REPORTED.

Control Measures

Respiratory Protection: USE ADEQUATE VENTILATION TO MINIMIZE EXPOSURE TO MIST, VAPOR, OR DUST.

Ventilation: USE GENERAL VENTILATION TO MINIMIZE EXPOSURE T

O MIST, VAPOR, OR

DUST.

Protective Gloves: DISPOSABLE LATEX GLOVES FOR SKIN PROTECTION.

Eye Protection: SAFETY GLASSES WITH TOP AND SIDE SHIELDS

Other Protective Equipment: HAVE EYE WASH STATION NEARBY. WEAR LAB COAT.

Work Hygienic Practices: AVOID CONTACT WITH EYES, SKIN, CLOTHING. DO NOT

BREATHE DUST. WASH THOROUGHLY AFTER HEATING. PROTECT FROM LIGHT, HEAT, MOISTURE.

Supplemental Safety and Health: HACH'S (MANUFACTURER) PART NUMBER:14064-99 (POWDER PILLOWS, CHLORINE REAGENT, BOX CONTAI

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NING 100 PILLOWS.)
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Physical/Chemical Properties

_____ HCC: N1 Melt/Freeze Pt: =145.C, 293.F Spec Gravity: 1.79 (H2O=1) PH: 6.35 @20C Solubility in Water: SOLUBLE Appearance and Odor: WHITE OR LIGHT PINK POWDER; ODOR NONE. ______ Reactivity Data ______ Stability Indicator: YES Stability Condit ion To Avoid: EXPOSURE TO LIGHT, EXCESSIVE MOISTURE, EXTREME TEMPERATURES. Materials To Avoid: OXIDIZERS. Hazardous Decomposition Products: TOXIC AND/OR CORROSIVE FUMES OF: CARBON DIOXIDE, CARBON MONOXIDE, IODINE COMPOUNDS, PHORPHORUS OXIDES, POTASSIUM OXIDE. Hazardous Polymerization Indicator: NO _____ **Toxicological Information** _____ Toxicological Information: ORAL, RAT, FEMALE, LD50: = 47 00 MG/KG; ORAL, RAT, MALE, LD50 = 7,000 MG/KG. NONE REPORTED FOR LC50, DERMAL TOXICITY DATA, SKIN AND EYE IRRITATION DATA, MUTATION DATA, REPRODUCTIVE EFFECTS DATA. INGRED IENT TOXICOLOGICAL DATA: DPD: ORAL, RAT, LD50 =970 MG/KG; POTASSIUM IODIDE: ORAL, MOUSE, LDLO = 1862 MG/KG; SODIUM PHOSPHATE, DIBASIC: ORAL, RAT, LD50 = 17 G/KG. (CONTD. FROM "HEALTH HAZARDS") CAUS E ALLERGIC SKIN REACTIONS IN SOME PEOPLE CAUSING SEVERE SKIN RASHES AND ITCHING. IODINES OVERDOSE, 'IODISM', MAY CAUSE SKIN RASH, RUNNING NOSE, HEADACHE, FEVER, AND BRONCHITIS. _____ **Ecological Information** ______ Ecological: NO ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT. NO ECOLOGICAL DATA AVAILABLE FOR THE INGREDIENTS OF THIS PRODUCT. _____ **MSDS** Transport Information _____

Transport Information: D.O.T.: DO

T PROPER SHIPPING NAME: NOT CURRENTLY REGULATED. I.C.A.O.; NOT CURRENTLY REGULATED.I.M.O.: NOT CURRENTLY REGULATED.

Regulatory Information

State Regulatory Information: CALIFORNIA PROP. 65: NO PROP. 65 LISTED CHEMICALS ARE PRESENT IN THIS PRODUCT. TRADE SECRET REGISTERY:NEW JERSEY TRADE SECRET REGISTRY NUMBER 80100131-5001 (CARBOXYLATE SALT) NEW JERSEY TRADE SECRET R EGISTRY 8

0100131-5002 (DPD SALT). NEW YORK TRADE SECRET REGISTRY NIMBER 478 (DPD SALT) NEW YORK TRADE SECRET REGISTRY NUMBER 479 (CARBOXYLATE SALT). THIS PRODUCT COMPLIES WITH PENNSYLVANIA TRADE STCRE T REGULATIONS. THIS PRODUCT IS REGISTERED AS A TRADE SECRET IN THE STATE OF ILLINOIS, STATE OF MASSA CHUSETTS, AND STATE OF NEW YORK..

Other Information

Other Information: RATING: HEALTH:

2; FLAMMABILITY: 1; REACTIVITY: 0;

PROTECTIVE EQUIPMENT: X (SEE MSDS "CONTROL MEASURES"). NFPA RATING: HEALTH: 1; FLAMMABILITY: 1; REACTIVITY: 0. INTENDED USE: INDICATOR FOR TOTAL

CHLORINE. (CONTD. FROM "DISPOSAL") ARE BASED ON FEDERAL REGULATIONS AND MAY BE SUPERSEDED BY MORE STRINGENT STATE OR LOCAL REQUIREMENTS. CONSULT YOUR LOCAL ENVIRONMENTAL REGULATORS FOR MORE INFORMATI ON.

Transportation Information

Responsible Party Cage: 91224 Trans ID NO: 159950 Product ID: 2105669, DPD TOTAL CHLORINE REAGENT MSDS Prepared Date: 10/12/2000 Review Date: 11/20/2001 MFN: 1 Net Unit Weight: 100 PILLOWS Multiple KIT Number: 0 Unit Of Issue: BX Container QTY: 0 Type Of Container: BOX Additional Data: TRANSPORTATION DATA PER MANUFACTURE'S MSDS.

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 _____ HAZCOM Label _____ Product ID: 2105669, DPD TOTAL CHLORINE REAGENT Cage: 91224 Company Name: HACH CO Street: 5600 LINDBERG H 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: 11/20/2001 Status Code: A Label Date: 11/20/2001 Origination Code: F Chronic Hazard IND: Y Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING **Respiratory Protection IND: NO** Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None Hazard And Precautions: STORE BETWEEN 10C AND 25C. PROTECT FROM HEAT, LIGHT MOISTURE. OVERVIEW: MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. SKIN CONTACT: MAY CAUSE IRRITATION AND/OR AL LERGIC REACTION. SKIN ABSORPTION: NO EFFECTS ANTICIPATED. INGESTION: CAUSES: LETHARGY, LOSS OF STRENGTH, LOSS OF COORDINATION, DIFFICULT BREATHING, DIARRHEA. MAY CAUSE IODISM, SYMTOMS INCLUDE SKIN RAS H, CONJUNCTIVITIS, RUNNING NOSE, SNEEZING, BRONCHITIS, HEADACHE, FEVER IRRITATION OF MUCOUS MEMBRANES. TARGET ORGANS: LIVER. INHALATION

: MAY CAUSE RESPIRATORY TRACT

IRRITATION AND EFFECTS SIMILAR TO T HOSE OF INGESTION..

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