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HACH CO. -- 24158, ULTRA LOW RANGE COD REAGENT 0-40PPM RANGE -- 6810-01-456-4695

============ Product Identification ==============

Product ID:24158, ULTRA LOW RANGE COD REAGENT 0-40PPM RANGE

MSDS Date:02/08/1999

FSC:6810

NIIN:01-456-4695

Status Code:A

MSDS Number: CLHTN
=== Responsible Party ===
Company Name: HACH CO.

Address:5600 LINDBERGH PKY

Box:608

City:LOVELAND

State:CO

ZIP:80538-8902

Country:US

Info Phone N

um:970-669-3050/800-227-4224

Emergency Phone Num:303-623-5716/515-232-2533

Resp. Party Other MSDS Num.:M00524

CAGE:91224

=== Contractor Identification ===

Company Name:HACH CO Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO ZIP:80539 Country:US

Phone:970-669-3050/303-623-5716

CAGE:91224

======= Composition/Information on Ingredients ========

Ingred Name: CHROMIC ACID

CAS:13530-68-2 RTECS #:GB2650000 Minumum % Wt:.01 Maxumum % Wt:.1

Other REC Limits: NONE RECOMMENDED

OSHA P

EL:0.5 MG CR/M3 ACGIH TLV:0.05 MG CR/M3

Ingred Name: MERCURIC SULFATE (SARA 313) (CERCLA)

CAS:7783-35-9

RTECS #:OX0500000

Minumum % Wt:.1

Maxumum % Wt:1.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG (HG)/M3; Z-2 ACGIH TLV:S,0.025 MG(HG)/M3;96

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: SILVER SULFATE

CAS:10294-26-5 Minumum % Wt:.1 Maxumum % Wt:1.

Other REC Limits: 10 MG/M3 AS MO

OSHA PEL:0.01 MG AG/M3 ACGIH TLV:0.01 MG AG/M3

Ingred Name: SULFURIC ACID (SARA 302/313) (CERCLA)

CAS:7664-

93-9

RTECS #:WS5600000

Minumum % Wt:75.

Maxumum % Wt:85.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3/3 STEL; 9596

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000 Minumum % Wt:10.

Maxumum % Wt:20.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT RELEVANT ACGIH TLV:NOT RELEVANT

=========== Hazards Identification ==============

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 2140MG/KG

Routes of Entry: Inhalation:YES Sk

in:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: CENTRAL NERVOUS SYSTEM, LUNGS, TEETH AND KIDNEYS. CAUSES EYE AND SKIN BURNS. WILL BE ABSORBED THROUGH SKIN. EFFECTS SIMILAR TO THOSE OF INGESTION. INGESTION CAUSES SEVERE BURNS. MAY CAU SE ABDOMINAL PAIN, CIRCULATORY DISTURBANCES, DIARRHEA, LOOSENING OF THE TEETH, NAUSEA, VOMITING, RAPID PULSE AND RESPIRATION, TOXIC NEPHRITIS (INFLAMMATION OF KIDNEYS)

, SHOCK, COLLAPSE, KIDNEY DAMAGE AND

DEATH. INHALATION CAUSES SEVERE BURNS. MAY CAUSE DIFFICULTY BREATHING, MOUTH SORENESS, TEETH EROSION. EFFECTS SIMILAR TO INGESTION. MAY CAUSE DESTRUCTION OF CONTACTED TISSUES, LUNGS, TEETH, ACCUMU LATION OF SILVER IN BODY TISSUE, CANCER

Explanation of Carcinogenicity: THIS PRODUCT DOES NOT CONTAIN ANY OSHA/NTP LISTED CARCINOGENS.

Effects of Overexposure:SEVERE BURNS, PAIN, DIARRHEA, EROSION OF TEETH, NAUSEA, VOMITING, RAPID PULSE AND R

ESPIRATION, INFLAMMATION OF

KIDNEYS, SHOCK, COLLAPSE, DEATH. MOUTH SORES, IRRITATION OF LUNGS, ACCUMULATION OF SILVER IN BODY TISSUES WHICH CAUSES A SLATE-GRAY TO BLUISH DISCOLORATION. CANCER. CHRONIC OVER EXPOSURE MAY CAUSE DESTRUCTION OF ANY TISSUE CONTACTED EROSION OF THE TEETH MOUTH SORENESS CHRONIC IRRITATION O R INFLAMMATION OF THE LUNGS

Medical Cond Aggravated by Exposure:PRE-EXISTING EYE CONDITIONS. SKIN CONDITIONS. RESPIRATORY CONDITIONS.

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= First Aid Measures ============

First Aid:EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN: WASH SKIN WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING. CALL PHYSICIAN IMMEDIATELY. INHALED: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY. CALL PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL PHYSICIAN.

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====== Fire Fighting Measures ===========

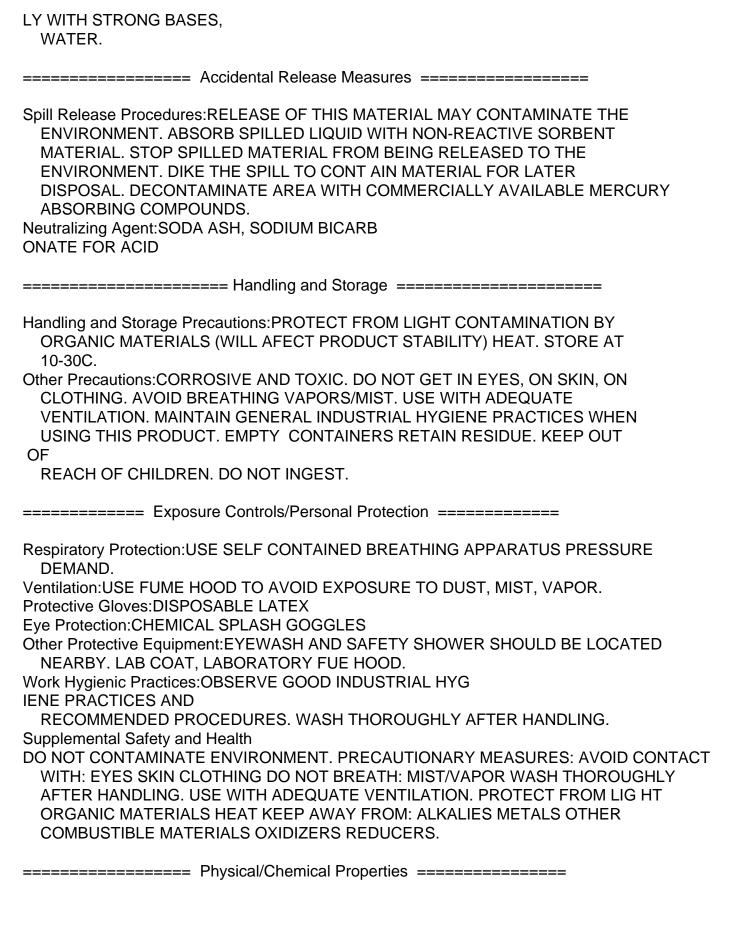
Flash Point:NONE

Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT

Extinguishing Media:USE MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures: AS WITH ANY FIRE, WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND. EVACUATE AREA AND FIGHT FIRE FROM SAFE DISTANCE.

Unusual Fire/Explosion Hazard: CONTACT WITH METALS GIVES OFF HYDROGEN GAS WHICH IS FLAMMABLE. MAY REACT VIOLENT



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HCC:C1

NRC/State Lic Num:NOT RELEVANT Boiling Pt:=99.C, 210.2F Melt/Freeze Pt:=7.C, 44.6F Vapor Pres:N/D Vapor Density:N/D Spec Gravity:1.83 pH: