

HACH CO. -- ULTRA LOW RANGE COD REAGENT 0-40 PPM RANGE,24158-25 -- 6810-01-456-4695

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

Product ID:ULTRA LOW RANGE COD REAGENT 0-40 PPM RANGE,24158-25

MSDS Date:05/18/1995

FSC:6810

NIIN:01-456-4695

Status Code:A

MSDS Number: CHXFM

=== Responsible Party ===

Company Name:HACH CO.

Address:5600 LINDBERGH PKY

Box:608

City:LOVELAND

State:CO

ZIP:80538-8902

Country:US

Info P

hone Num:970-669-3050/800-227-4224

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

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

Fraction by Wt: .01-0.1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL: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  
Fraction by Wt: 0.1-1.0%  
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  
Fraction by Wt: 0.1-1.0%  
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  
Fraction by Wt: 75 - 85%  
Oth  
er 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  
Fraction by Wt: 10 - 20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOT RELEVANT  
ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES

OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: CENTRAL NERVOUS SYSTEM, LUNGS, TEETH & KIDNEYS. ACUTE- CORROSIVE & TOXIC. CAUSES EYE & SKIN BURNS. WILL BE ABSORBED THROUGH SKIN. INGESTION CAUSES SEVERE BURNS. MAY CAUSE SHOCK, COLLAPSE, KIDNEY DAMAGE & DEATH. INHALATION CAUSES SEVERE BURNS. CHRONIC- MAY CAUSE LUNGS, TEETH, TISSUE DAMAGE & CANCER.

Explanation of Carcinogenicity:CONTAINS CHROMIC ACID.

Effects of Overexposure:SEVERE IRRITATION, SEVERE BURNS, PAIN, COUGH,

DIARRHEA, EROSION OF TEETH, INFLAMMATION OF LUNGS, ACCUMULATION OF SILVER IN TISSUE (GRAY TO BLUISH DISCOLORATION)

Medical Condition Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE.

EYES/SKIN: IMMEDIATELY FLUSH WITH WATER

FOR 15 MINUTES. HOLD

EYELIDS OPEN. INHALED: MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. ORAL: DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION.

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARB

ON DIOXIDE, FOAM OR DRY CHEMICAL

FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:AS WITH ANY FIRE, WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF HAZARDOUS DECOMPOSITION PRODUCTS OR SMOKE

Unusual Fire/Explosion Hazard:CORROSIVE FUMES MAY BE FORMED. REACTS WITH MOST METALS TO PRODUCE FLAMMABLE AND EXPLOSIVE HYDROGEN GAS.

===== Accidental Release Measures =====

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Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. DO NOT RELEASE INTO SOIL, SEWER, STREAM. COVER SPILL WITH INERT ABSORBENT. PLACE IN SUITABLE CONTAINER FOR DISPOSAL. MERCURY IS VERY TOXIC. AVOID INHA LATION AND TOUCHING SPILL.  
Neutralizing Agent:SODA ASH, SODIUM BICARBONATE FOR ACID

===== Handling and Storage =====

Handling and Storage Precautions:STORE BETWEEN 50-86F (10-30C), AWAY FROM LIGHT AND INCOMP ATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED. DO NOT REMOVE LABEL.  
Other Precautions:CORROSIVE AND TOXIC. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID BREATHING VAPORS/MIST. USE WITH ADEQUATE VENTILATION. EMPTY CONTAINERS RETAIN RESIDUE. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST .

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE LABORATORY FUME HOOD.  
Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUI REMENTS.  
Protective Gloves:BUTYL RUBBER, PVC OR NITRILE  
Eye Protection:SAFETY GLASSES+SIDE SHIELD/CHEM GOGGLES  
Other Protective Equipment:USE RUBBER SPLASH APRON AND RUBBER BOOTS. EYEWASH AND SAFETY SHOWER SHOULD BE LOCATED NEARBY.  
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.  
Supplemental Safety and Health  
DO NOT CONTAMINATE ENVIRONMENT.

===== Physical/Chemical Properties =====

HCC:C1  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:B.P. Text:210F,99C  
Melt/Freeze Pt:M.P/F.P Text:45.0F,7.2C  
Spec Gravity:1.83  
pH: