

HACH CO -- 204499, CHROMIUM 2 REAGENT (SEE SUPPLEMENTAL DATA) -- 6810-01-447-6498

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

Product ID:204499, CHROMIUM 2 REAGENT (SEE SUPPLEMENTAL DATA)

MSDS Date:11/29/2000

FSC:6810

NIIN:01-447-6498

Status Code:A

Kit Part:Y

MSDS Number: CLSGK

=== Responsible Party ===

Company Name:HACH CO

Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO

ZIP:80538-8902

Country:US

Info Phone Num:970-669-3050/800-227-4224

Emergency Phone Num:303-623-5716

Resp. Party Other MSDS Num.:M00034

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:1,2-CYCLOHEXYLENEDIAMINETETRAACETIC ACID TRISODIUM SALT

CAS:36679-96-6

Minumum % Wt:15.

Maxumum % Wt:25.

Ingred Name:SO

DIUM SULFATE
CAS:7757-82-6
RTECS #:WE1650000
Minumum % Wt:15.
Maxumum % Wt:25.

Ingred Name:5-SULFOSALICYLIC ACID
CAS:5965-83-3
Minumum % Wt:65.
Maxumum % Wt:75.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE CONTACT: CAUSES EYE BURNS. SKIN
CONTACT: MAY CAUSE IRRITATION. INGESTION: MAY CAUSE:
GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.
INHALATION: MAY CAUSE:
RESPIRATORY TRACT IRRITATION.

Explanation of Carcinogenicity:TESTS PERFORMED ON THIS PRODUCT /
COMPONENTS GAVE INSUFFICIENT EVIDENCE TO CLASSIFY FOR
CARCINOGENICITY.

Effects of Overexposure:EYE CONTACT: CAUSES EYE BURNS. SKIN CONTACT:
MAY CAUSE IRRITATION. INGESTION: MAY CAUSE: GASTROINTESTINAL
IRRITATION, NAUSEA, VOMITING, DIARRHEA. INHALATION: MAY CAUSE:
RESPIRATORY TRACT IRRITATION.

Medical Cond Aggravated by Exposure:EYE CONDITIONS SKIN CONDITIONS
RESPIRATORY CONDITIO
NS.

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

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15
MINUTES. CALL PHYSICIAN. SKIN CANTACT: WASH SKIN WITH PLENTY OF
WATER. CALL PHYSICIAN IF IRRITATION DEVELOPS. INGESTION: DO NOT
INDUCE VOMITNG. GI VE 1-2 GLASSES OF WATER. CALL PHYSICIAN
IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: REMOVE TO FRESH AIR.

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

=====

Autoignition Temp:Autoignition Temp Text:ND

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 Fire/Explosion Hazard:CAN BURN IN FIRE, RELEASING TOXIC VAPORS.

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

Spill Release Procedures:STOP SPILLED MATERIAL FROM BEING RELEASED TO
THE ENVIRONMENT.

COVER SPILLED SOLID MATERIAL WITH SAND OR OTHER
INERT MATERIAL. SCOOP UP SPILLED MATERIAL INTO A LARGE BEAKER AND
DISSOLVE WITH WATER. ADJUST TO A PH BETWEEN 6 AND 9 WITH AN
ALKALI, SUCH AS SODA ASH OR SODIUM BICARBONATE. FLUSH REACTED
MATERIAL TO THE DRAIN WITH A LARGE EXCESS OF WATER.

Neutralizing Agent:SODA ASH OR SODIUM BICARBONATE.

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

Handling and Storage Precautions:AVOID CONTACT WITH EYES, SKIN. DO NOT

BREATHE DUST. WASH THOROUGHLY AFTER HANDLING. MAINTAIN GENERAL
INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT. KEEP AWAY
FROM: REDUCERS PROTECT FROM: HEAT. KEEP AWAY FROM: OXIDIZERS.

Other Precautions:AVOID CONTACT WITH EYES, SKIN. DO NOT BREATHE DUST.
WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:ADEQUATE VENTILATION.

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

ST.

Protective Gloves:DISPOSAL LATEX

Eye Protection:SAFETY GLASSES WITH TOP AND SIDE SHIELDS

Other Protective Equipment:HAVE AN EYEWASH STATION NEARBY. LAB COAT.

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

Supplemental Safety and Health

THIS IS A KIT WITH PART NUMBER: 2242500, CONSISTING OF: 212699, ACID
REAGENT; 204499, CHROMIUM 2 REAGENT; 204399, CHROMIUM

1 REAGENT;
1206699, CHROMAVER 3 CHROMIUM REAGENT.THIS IS PART OF A KIT, KIT NUMBERS, MSDS#; CLSGJ, MSDS#; CLSGH,MSDS#; CLSGL

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

HCC:C2
Melt/Freeze Pt:>155.C, 311.F
M.P/F.P Text:311-338F
Spec Gravity:1.61
pH:1.2
Evaporation Rate & Reference:N/A (WATER=1)
Solubility in Water:50% SOLUBLE
Appearance and Odor:WHITE POWDER, SOLID

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
MAY REACT VIOLENTLY IN CONTACT WITH: OXIDIZERS.
Stability Condition to Avoid:STABLE WHEN STORED UNDER PROPER CONDITIONS. CONDITIONS TO AVOID: EXCESS MOISTURE, HEAT.
Hazardous Decomposition Products:HEATING TO DECOMPOSITION RELEASES TOXIC AND/OR CORROSIVE FUMES OF: SULFUR OXIDES, NITROGEN OXIDES, CARBON MONOXIDE, CARBON DIOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:LD50/LC50: NONE REPORTED. MUTATION DATA: NONE REPORTED. REPRODUCTIVE EFFECTS DATA: SODIUM SULFATE-ORAL MOUSE TDLO = 14 G/KG (UNSPECIFIED NEONATAL EFFECTS); TDLO = 60 MG/KG REPRODUCTIVE EFFECTS-EMBRYO OR FETUS-FETOXICITY. INGREDIENT TOXICOLOGICAL DATA: SULFOSALICYLIC ACID ORAL RAT LD50 = ,2450 MG/KG; SODIUM SULFATE ORAL MOUSE LD50 = 5989 MG/KG

===== Ecological Information =====

Ecological:NO ECOLOGICAL DATA AVSAILABLE FOR THIS PROD

UCT. INGREDIENT

ECOLOGICAL INFORMATION: SODIUM SULFATE AQUATIC TOXICITY TLM 13500 MG/L BLUEFILL SUNFISH/96 HR, TLM 16500 MG/L MOSQUITO FISH/96 HR.

===== Disposal Considerations =====

Waste Disposal Methods:DILUTE MATERIAL WITH EXCESS WATER MAKING A WEAKER THAN 5% SOLUTION. ADJUST TO A PH BETWEEN 6 AND 9 WITH ALKALI, SUCH AS SODA ASH OR SODIUM BICARBONATE. OPEN COLD WATER TAP COMPLETELY, SLOWLY POUR THE REACTED MATERIAL TO THE DRAIN. DECONTAMINATE THE AREA OF THE SPILL WITH A SOAP SOLUTION.

===== MSDS Transport Information =====

Transport Information:D.O.T/I.C.A.O/I.M.O. PROPER SHIPPING NAME: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S, HAZARD CLASS 8. UN 3261. PACKING GROUP III

===== Regulatory Information =====

SARA Title III Information:IMMEDIATE (ACUTE) HEALTH HAZARD. THIS PRODUCT DOES NOT CONTAINS ANY CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS

OF SECTION 313 OF TITLE III OF SARA.

Federal Regulatory Information:CLEAN WATER ACT: NOT APPLICABLE. RCRA: CONTAINS NO RCRA REGULATED SUBSTANCES.U.S. INVENTORY STATUS: THIS PRODUCT CONTAINS A CHEMICAL(S) EXEMPT FROM THE TSCA 8 (B) INVENTORY DUE TO A LOW VOLUME EXEMPTION HELD BY HACH COMPANY. TSCA: 1,2-CYCLOHEXANEDIAMINETETRAACETIC ACID TRISODIUM SALT. THIS CHEMICAL MAY ONLY BE USED AS A CHELATING REAGENT FOR CHEMICAL REACTIONS.

State Regulatory Information:CALIFORNIA PROP. 65: NO PROP. 65 LISTED CHEMICALS ARE PRESENT IN THIS PRODUCT.

===== Other Information =====

===== Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaim

ms all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.