

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

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Product Identification  
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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

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Composition/Information on Ingredients  
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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.

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===== 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.

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===== 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.

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

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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 DU

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 N  
UMBERS, 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 =====

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