

OCCIDENTAL CHEM CORP. DIV OF OCCIDENTAL PETROLEUM -- CHROMIC ACID-FLAKE --
6810-00-264-6517

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

Product ID:CHROMIC ACID-FLAKE

MSDS Date:07/03/1990

FSC:6810

NIIN:00-264-6517

MSDS Number: BHRZ

=== Responsible Party ===

Company Name:OCCIDENTAL CHEM CORP. DIV OF OCCIDENTAL PETROLEUM

Address:360 RAINBOW BOULEVARD SOUTH, SUITE 400

Box:728

City:NIAGARA FALLS

State:NY

ZIP:

14302

Country:US

Info Phone Num:716-286-3081

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Preparer's Name:B. L. GRAHAM

CAGE:KO973

=== Contractor Identification ===

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State:NY

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Phone:1-800-733-3665

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Composition/Information on Ingredients
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Ingred Name:CHROMIC ACID (CHROMIUM TRIOXIDE)

CAS:1333-82-0

RTECS #:GB6650000

Fraction by Wt: 99-100%

OSHA PEL:100 MICRO GRAMS/M3

ACGIH TLV:50 MICRO GRAMS/M3

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Hazards Identification
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LD50 LC50 Mixture:LD50 (ORAL RAT) IS 52 MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chron

ic:ACUTE: INHALING DUST OR MIST MAY CAUSE

IRRITATION OF THE NASAL SEPTUM AND RESPIRATORY TRACT. SKIN CONTACT MAY CAUSE SEVERE BURNS. MODERATE IRRITATION OR CONJUNCTIVITIS OF THE EYES. INGESTION MAY CAUSE SEVERE TISSUE DESTRUCTION. CHRONIC: ULCERATION AND PERFORATION OF THE NASAL SEPTUM, KIDNEY FAILURE AND DEATH.

Explanation of Carcinogenicity:NTP AND IARC HAVE DETERMINED THAT THERE IS SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY OF HEXAVALENT CHROMIUM COMPOUNDS.

Effec

ts of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

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First Aid Measures
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First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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Fire Fighting Measures
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Lower Limits:NOT APPLICAE

Upper Limits:NOT APPLICAE

Extinguishing Media:PRODUCT IS NOT COMBUSTIBLE. WATER FOG, DRY CHEMICAL OR CARBON DIOXIDE MAY BE USED IN AREAS WHERE PRODUCT IS STO

RED.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:UNDER FIRE CONDITIONS, DECOMPOSING MATERIAL MAY FORM A HOT VISCOUS FOAM. OXIDIZER. AVOID CONTACT WITH ORGANIC MATERIALS.

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

Spill Release Procedures:STOP LEAKS. REMOVE AS MUCH AS POSSIBLE (E.G.

VACUUM TRUCK). THEN TREAT THE SPILL AREA WITH A REDUCING AGENT TO CONVERT THE HEXAVALENT CHROMIUM TO THE TRIVALENT FORM AND NEUTRALIZE WITH A WEAK BASE. SO AK UP AND PROPERLY STORE. DO NOT FLUSH TO SEWER.

Neutralizing Agent:SODIUM BICARBONATE, SODA ASH OR LIME. REDUCE WITH SODIUM BISULFITE, OR OTHERS.

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

Handling and Storage Precautions:DO NOT STORE IN CLOSE PROXIMITY TO COMBUSTIBLE MATERIALS. STORE IN TIGHTLY CLOSED CONTAINERS AWAY FROM SOURCES OF HEAT.

Other Precautions:REDUCE WITH SODIUM BISULFITE, SODIUM SULFITE, FERROUS SULFATE OR FERROUS CHLORIDE. NEUTRALIZE TO A PH 7.5 WITH SODA ASH, CAUSTIC SODA OR LIME TO FORM A PRECIPITATE.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE AND DUST/MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/ WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.

Protective Gloves:IDUSTRIAL GRADE RUBBER OR PVC

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIE

NE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:D1

Melt/Freeze Pt:M.P/F.P Text:387F,197C

Spec Gravity:2.7

pH:0.2-2

Solubility in Water:63% @ 25C

Appearance and Odor:SOLID DARK RED FLAKES OR POWDER; NO ODOR

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH ORGANIC MATERIALS, OILS, GREASES, OR ANY EASILY OXIDIZABLE MATERIAL. PRODUCT IS HYGROSCOPIC.

Stability Condition to Avoid:UNDER NORMAL USE CONDITIONS, THIS PRODUCT IS STABLE.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. IF IN SOLUTION, MUST BE REDUCED TO TRIVALENT CHROMIUM FIRST AND THEN NEUTRALIZED TO FORM PRECIPITANT.

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