

DIAMONDS SHAMROCK(MFGR);CHEM. COMMOD. (DISTR.) -- O-C-303,CHROMIUM  
TRIOXIDE,TECHNICAL -- 6810-00-264-6517

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

Product ID:O-C-303,CHROMIUM TRIOXIDE,TECHNICAL

MSDS Date:01/01/1985

FSC:6810

NIIN:00-264-6517

MSDS Number: BDQMJ

=== Responsible Party ===

Company Name:DIAMONDS SHAMROCK(MFGR);CHEM. COMMOD. (DISTR.)

Address:717 N HARWOOD ST

City:DALLAS

State:TX

ZIP:75201-650

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Country:US

Emergency Phone Num:NONE

CAGE:KO981

=== Contractor Identification ===

Company Name:DIAMONDS SHAMROCK(MFGR);CHEM. COMMOD. (DISTR.)

Address:717 N HARWOOD ST

Box:City:DALLAS

State:TX

ZIP:75201-6501

Country:US

CAGE:KO981

Company Name:MAXUS ENERGY CORP -FORMERLY DIAMOND SHAMROCK CORP.

Address:717 N HARWOOD ST

Box:City:DALLAS

State:TX

ZIP:75201-6501

Country:US

Phone:214-922-2700/216-352-7245

CAGE:85186

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

Ingred Name:CHRO

MIUM (VI) OXIDE  
CAS:1333-82-0  
RTECS #:GB6650000  
Fraction by Wt: 99.5%  
OSHA PEL:C, 0.1 MG/M3 (CRO3)  
ACGIH TLV:0.05 MG/M3(CR); 8990

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

Effects of Overexposure:IF INHALED AS DUST OR MIST MAY IRRITATE  
RESPIRATORY SYSTEM.IRRITATE MUCOUS MEMBRANES & SKIN,EYES.

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

First Aid:SKIN CONTACT:FLUSH SKIN WITH WATER.CLOTHING PENETRATED WITH  
DUST OR SOLUTIONS SHOULD BE  
REMOVED PROMPTLY & WASHED BEFORE  
RE-USE.EYES:IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT  
LEAST 15 MINUTES .CALL DOCTOR.INHALATION:IRRIGATE NOSE &MOUTH(H\*2O

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

Flash Point:N.A.  
Extinguishing Media:CHROMIC ACID IS NOT COMBUSTIBLE.WATER,CO\*2,DRY  
CHEMICAL  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:CHROMIC ACID IS NOT COMBUSTIBLE,BUT MAY  
IGNITE OXIDIZABLE SUBSTANCES.

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

Spill Release Procedures:THE SOLIDS SHOULD BE SHOVELED UP.AREA SHOULD  
BE FLUSHED WITH WATER.REMAINING TRACES SHOULD BE NEUTRALIZED WITH  
SODA ASH.DISSOLVED SOLIDS MAY THEN BE TREATED BY APPROPRIATE WASTE  
DISPOSAL METHOD

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

Handling and Storage Precautions:DO NOT STORE IN HUMID AIR.DO NOT STORE  
IN CLOSED PROXIMITY TO EASILY OXIDIZABLE MATERIALS(YELLOW  
LABEL).AVOID CONTACT

CT WITH SKIN OR EYES.AVOID GREASES.

Other Precautions:AVOID BREATHING MISTS OR DUSTS.DO NOT TAKE INTERNALLY.PROTECT CONTANERS AGAINST PHYSICAL DAMAGE.KEEP CONTAINERS FIRMLY CLOSED.STORE IN A DRY PLACE AWAY FROM COMBUSTIBLES & EASILY OXIDIZABLES.

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

Respiratory Protection:DUST RESPIRATOR(U.S.BUREAU OF MINES 2175 MODEL 7100 OR OPTICAL RS090

Ventilation:AS REQUIRED TO CONTROL TLV IN AIR

Protective Gloves:RUBBER OR PL

AST

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:RUBBER SAFETY TOED SHOES.

Supplemental Safety and Health

THE MANUFACTURER OF THIS PRODUCT IS DIAMOND SHAMROCK OF CLEVELAND OHIO.

IN HANDLING &STORAGE AVOID STORAGE ON WOODEN FLOORS-WEAR RUBBER GLOVES,MASK,OVERALLS,RUBBER APRONS,AND RUBBER SHOES.

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

HCC:D3

Boiling Pt:B.P. Text:N.A.

Spec Gravity:2.7

Evaporation Rate & Reference:BUTYL ACETATE-N.A.

Solubility i

n Water:APPRECIABLE

Appearance and Odor:DARK RED SOLID FLAKES OR POWDER

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

CHROMIC ACID IS STRONG OXIDIZING AGENT,ORGANIC MATLS,OILS

Stability Condition to Avoid:STORAGE IN HUMID PLACES.STRONG

OXIDIZERS,OXIDIZING IN SOLN.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:THE

HEXSVALENT CHROMIUM IN SOLUTION MAY BE  
REDUCED TO TRIVALENT CHROMIUM BY A VARIETY OF REDUCING AGENTS SUCH  
AS SODIUM BISULFITE, SODIUM SULFITE, THEN PRECIPITATED AS THE HYDROUS  
CHROMIC OXIDE BY NEUTR ALIZING TO PH OF 7.5 W/SODA ASH, CAUSTIC SODA  
& LIM

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