

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

Product ID:CHEMICAL CONVERSION

MSDS Date:06/16/1987

FSC:8030

NIIN:00-811-3723

MSDS Number: BJZDL

=== Responsible Party ===

Company Name:TURNER ENGINEERING, INC.

Address:3730 EASTSIDE HIGHWAY

City:STEVENSVILLE

State:MT

ZIP:59870

Country:US

Info Phone Num:406-777-2751

Emergency Phone Num:406-777-2751

CAGE:4S444

=== Contractor Identification ===

Company Name:STE

VEN INDUSTRIES

Address:39 AVENUE C

Box:8

City:BAYONNE

State:NJ

ZIP:07002-3417

Country:US

Phone:201-437-6501

CAGE:33150

Company Name:TURCO PRODUCTS, INC.

Address:7300 BOLSA AVE

Box:6200

City:WESTMINSTER

State:CA

ZIP:92684-3600

Country:US

Phone:614-387-6200

CAGE:0BYN5

Company Name:TURNER ENGINEERING, INC.

Address:3730 EASTSIDE HIGHWAY

City:STEVENSVILLE

State:MT

ZIP:59870

Country:US

Phone:406-777-2751

CAGE:4S444

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

Ingred Name:CHRO

MIC ACID
CAS:1333-82-0
RTECS #:GB6650000
Fraction by Wt: 52% *
Other REC Limits:HEXAVALENT CHROM CPD
OSHA PEL:C 0.1 MG/M3 CRO
ACGIH TLV:0.05 MG/M3 CR3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES
Explanation of Carcinogenicity:OVEREXPOSURE TO HEXAVALENT CHROME MAY
CAUSE LUNG CANCER RISK.
Effects of Overexposure:EYES:SEVERE IRRIT,CONJUNCTIVITIS,CHEM BURN,PERM
TI
SSUE DAMAGE/BLINDNESS.SKIN:SEVERE IRRIT,CHEM
BURNS.ULCERATION.CHROMIC ACID IS A SKIN
SENSITIZER.INHALED:ULCERATION/PERFORATION OF NASAL SEPTUM & IRRIT
& DAMAGE TO RESPIRATORY SYSTEM.SYMPTOMS RESEMBLE THOSE OF
ASTHMA.INGESTION:HARMFUL/FATAL.TOXIC EFFECTS MAY BE DELAYED.
Medical Cond Aggravated by Exposure:CHROMIC ACID IS A SYSTEMIC POISON
AFFECTING THE LIVER, KIDNEYS AND GASTROINTESTINAL TRACT. REPEATED
OVERXPOSURE MAY AGGRAVATE ANY PRE-EXISTING DYSFUNCTION OF THESE
S
YSTEMS.

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

First Aid:EYES:IMMED FLUSH W/LOTS OF H2O FOR 15 MIN.HOLD LID APART.GET
MED ATTN.SKIN:WASH W/SOAP/H2O IMMED.IRRIT EVIDENT/BLISTER,GET MED
ATTN.INHALED:REMOVE TO FRESH AIR.GIVE O IF BREATH DIFF.GET MED
ATTN.INGES TED:IF CONSCIOUS IMMED DILUTE BY GIVE LARGE VOL OF
H2O.INDUCE VOMIT BY GIVING SYRUP OF IPEAC/TOUCH BACK OF THROAT
W/FINGER.REPEAT UNTIL VOMIT FLUID IS CLEAR.FOLLOW W/MORE H2O/MUCIL
DRINK
.GET MED ATTN.

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

Flash Point:NONE
Extinguishing Media:DRY CHEM,CARBON DIOXIDE.AVOID CONTACT OF DRY
CHROMIC ACID W/H2O IF POSS.DRY CHROMIC ACID EXPOSED TO HIGH HEAT
MAY DECOMP
Fire Fighting Procedures:USE SELF-CONTAINED BREATHING RSPRTRY
PROTECTION & FULL PROT GEAR.ANY WATER RUNOFF MAY CONTAIN HEXAVALENT
CHROME & SHOULD NOT BE ALLOWED TO ENTER SEWERS/WATERWAY
Unusual Fire/Explosion Hazard:MAY INCREASE INTENSITY O

F FIRE WHEN IN

CONTACT W/COMBUSTIBLE MAT'L COOL FIRE EXPOSED CONTAINER CAUTIONLY
WITH WATER SPRAY,BEING ALERT FOR POSSIBLE OF STEAM EXPO

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

Spill Release Procedures:USE PROTECT EQUIP.SHOVEL DRY SPILL IN
DOT-APPROVED DRUM FOR DISPOSAL.KEEP SOIL DRY UNTIL SWEEP
UP/SHOVELED INTO DISPOSAL DRUMS.RESIDUAL AMNTS SHOULD BE DISSOLVED
IN WATER & SOLUTION COLLECTED IN DRUMS FOR DISPOSAL.DO NOT ALLOW
TO ENTER SEWER.W
ATERWAY

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

Handling and Storage Precautions:STORE IN DRY PROTECTED AREA AWAY FROM
STRONG ACIDS OR BASES,REDUCING COMPOUNDS,FLAMMABLE OR COMBUSTIBLE
MATERIAL.

Other Precautions:WARNING!SLOWLY ADD TO SOLUTION WHILE MIXING,TAKING
CARE TO AVOID SPLASHING OR SPATTERING. USE APPROPRIATE PROTECTIVE
EQUIPMENT.

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

Respiratory Protection:FOR DUST CONDITIONS,
A NIOSH-APPROVED RESPIRATOR
FOR TOXIC DUST IS ADVISED. IF RESPIRATORS ARE USED, A FORMAL
TRAINING AND SCREENING PROGRAM MUST BE INITIATED.

Ventilation:MAINTAIN SUFFICIENT MECHANICAL VENTILATION TO KEEP
PARTICULATE CONCENTRATION BELOW TLV.

Protective Gloves:MATERIAL RESISTANT CHROMIC GLOVES

Eye Protection:CHEMICAL FACE SHIELD OR GOGGLES.

Other Protective Equipment:CHEMICAL RESISTANT BOOTS AND APRON.SUIT IS
NOT NORMALLY REQUIRED.

Work Hygienic Practices:WASH HANDS/FACE W/SOAP/WATE
R BEFORE SMOKING OR
EATING.IMMED REMOVE CONTAM CLOTHES.WASH BEFORE REUSE.DO NOT WASH AT
HOME.

Supplemental Safety and Health

REPAIR AND MAINTENANCE OF CONTAMINATED EQUIP:RELIEVE ANY PRESSURE.COVER
OPENINGS TO AVOID SPLASHING.CLEAN EXTERIOR AND INTERIOR BY FLUSHING
WITH WATER.COLLECT FLUSHING FOR DISPOSAL.USE PROTECTIVE EQUI PMENT
FOR EYES, SKIN AND INHALATION.

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

HCC:D3

pH:2.0(3%

Solubility in Water:APPRECIAB

LE

Appearance and Odor:DARK RED FLAKES OF POWDER, LITTLE OR NO ODOR

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:CONTACT WITH STRONG ACIDS,STRONG ALKALI,
REDUCING COMPOUNDS, FLAMMABLE OR COMBUSTIBLE MATERIALS.

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

Waste Disposal Methods:TRANSFER TO RECLAIM CNTR FOR
RECYCLE/REUSE.TRANSFER TO LICENSED HAZARD WASTE TREATMENT/DISPO
SAL
SITE FOR DISPOS UNDER APPLICABLE LOCAL,STATE/REGIONAL REGS AS
HAZARDOUS WASTE.SMALL AMTS MAY BE DISSOLVE D IN
H2O,TREATED/RELEASED TO SEWER IF REGS PERMIT.

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