

TURNER ENGINEERING, INC. -- CHEMICAL CONVERSION -- 8030-00-811-3723

===== 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:406-777-27

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CAGE:4S444

=== Contractor Identification ===

Company Name:STEVEN 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:STEVENSVELLE

State:MT

ZIP:59870

Country:US

Phone:406-777-2751

CAGE:4S444

===== Composi

tion/Information on Ingredients =====

Ingred Name:CHROMIC 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 Ove

reposure:EYES:SEVERE IRRIT,CONJUNCTIVITIS,CHEM BURN,PERM

TISSUE 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

OVERX

POSURE MAY AGGRAVATE ANY PRE-EXISTING DYSFUNCTION OF THESE

SYSTEMS.

===== 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.REP

EAT 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 OF 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.WATERWAY

===== 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 NORMAL

LY REQUIRED.

Work Hygienic Practices:WASH HANDS/FACE W/SOAP/WATER 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 EQUIPMENT FOR EYES, SKIN AND INHALATION.

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

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HCC:D3

pH:2.0(3%

Solubility in Water:APPRECIABLE

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/DISPOSAL
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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