# Chem-Impex International Inc.

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## SAFETY DATA SHEET

## SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 07213

NAME: Chromium(VI) oxide

SYNONYMS: Chromic anhydride

24 HOUR EMERGENCY

TELEPHONE:

(800) 535-5053(USA)

352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE: (630) 766-2112

## SECTION 2. HAZARDS IDENTIFICATION

## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

OXIDIZING SOLIDS (CATEGORY 1), H271 ACUTE TOXICITY, ORAL (CATEGORY 3), H301 ACUTE TOXICITY, INHALATION (CATEGORY 2), H330 ACUTE TOXICITY, DERMAL (CATEGORY 3), H311 SKIN CORROSION (CATEGORY 1A), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318

RESPIRATORY SENSITISATION (CATEGORY 1), H334

SKIN SENSITISATION (CATEGORY 1), H317

GERM CELL MUTAGENICITY (CATEGORY 1B), H340

CARCINOGENICITY (CATEGORY 1A), H350

REPRODUCTIVE TOXICITY (CATEGORY 2), H361

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE, INHALATION

(CATEGORY 1), H372

ACUTE AQUATIC TOXICITY (CATEGORY 1), H400 CHRONIC AQUATIC TOXICITY (CATEGORY 1), H410

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

## GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM









SIGNAL WORD DANGER

#### HAZARD STATEMENT(S)

H271	MAY CAUSE FIRE OR EXPLOSION; STRONG OXIDISER.
H301 + H311	TOXIC IF SWALLOWED OR IN CONTACT WITH SKIN
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H318	CAUSES SERIOUS EYE DAMAGE.

H330 FATAL IF INHALED.

H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR

BREATHING DIFFICULTIES IF INHALED.

H340 MAY CAUSE GENETIC DEFECTS.

H350 MAY CAUSE CANCER.

H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN

CHILD.

H372 CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE IF INHALED.

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING

EFFECTS.

### PRECAUTIONARY STATEMENT(S)

P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE

BEEN READ AND UNDERSTOOD.

P210 KEEP AWAY FROM HEAT.

P220 KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE

MATERIALS.

P221 TAKE ANY PRECAUTION TO AVOID MIXING WITH

COMBUSTIBLES.

P260 DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/

SPRAY.

P264 WASH SKIN THOROUGHLY AFTER HANDLING.

P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS

PRODUCT.

P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE

ALLOWED OUT OF THE WORKPLACE.

P273	AVOID RELEASE TO THE ENVIRONMENT.
P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE
	PROTECTION/ FACE PROTECTION.
P283	WEAR FIRE/ FLAME RESISTANT/ RETARDANT CLOTHING.
P284	WEAR RESPIRATORY PROTECTION.
P301 + P310 + P330	IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR
	DOCTOR/ PHYSICIAN. RINSE MOUTH.
P301 + P330 + P331	IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE
	VOMITING.
P303 + P361 + P353	IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL
	CONTAMINATED CLOTHING. RINSE SKIN WITH
	WATER/SHOWER.
P304 + P340 + P310	IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP
	COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A
	POISON CENTER OR DOCTOR/ PHYSICIAN.
P305 + P351 + P338 +	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
P310	MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND
	EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A
	POISON CENTER OR DOCTOR/PHYSICIAN.
P306 + P360	IF ON CLOTHING: RINSE IMMEDIATELY CONTAMINATED
	CLOTHING AND SKIN WITH PLENTY OF WATER BEFORE
	REMOVING CLOTHES.
P308 + P313	IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/
	ATTENTION.
P333 + P313	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL
	ADVICE/ ATTENTION.
P362	TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE
	REUSE.
P370 + P378	IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR
	ALCOHOL-RESISTANT FOAM TO EXTINGUISH.
P371 + P380 + P375	IN CASE OF MAJOR FIRE AND LARGE QUANTITIES:
	EVACUATE AREA. FIGHT FIRE REMOTELY DUE TO THE RISK
	OF EXPLOSION.
P391	COLLECT SPILLAGE.
P403 + P233	STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER
	TIGHTLY CLOSED.
P405	STORE LOCKED UP.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
	WASTE DISPOSAL PLANT.
HAZARDS NOT	NONE
OTHERWISE	

**OTHERWISE** 

CLASSIFIED (HNOC) OR NOT COVERED **BY GHS** 

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

 $\text{CrO}_3$ MF:

99.99 MW:

CAS-NO. 1333-82-0

PURITY:  $\geq 99.5\%$  (Assay)

## **HAZARDOUS COMPONENTS**

COMPONENT	CLASSIFICATION	CONCENTRATION			
CHROMIUM TRIOXIDE INCLUDED IN THE CANDIDATE LIST OF SUBSTANCES OF					
VERY HIGH CONCERN (SVHC) ACCORDING TO REGULATION (EC) NO. 1907/2006					
(REACH)					
	OX. SOL. 1; ACUTE TOX. 3;	<= 100%			
	ACUTE TOX. 2; ACUTE TOX. 3;				
	SKIN CORR. 1A; EYE DAM. 1;				
	RESP. SENS. 1; SKIN SENS. 1;				
	MUTA.1B; CARC. 1A; REPR. 2;				
	STOT RE 1; AQUATIC ACUTE 1;				
	AQUATIC CHRONIC 1; H271,				
	H301 + H311, H314, H317, H318,				
	H330, H334, H340, H350, H361,				
	H372, H410				

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

## SECTION 4. FIRST-AID MEASURES

## **DESCRIPTION OF FIRST AID MEASURES**

GENERAL ADVICE CONSULT A PHY	I SICIAN, SHU	W THIS SAFETY DATA
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SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT

OF DANGEROUS AREA.

**IF INHALED** IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF

NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

CONSULT A PHYSICIAN.

IN CASE OF SKIN

CONTACT

TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF

WATER. TAKE VICTIM IMMEDIATELY TO HOSPITAL.

CONSULT A PHYSICIAN.

IN CASE OF EYE

**CONTACT** 

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT

LEAST 15 MINUTES AND CONSULT A

PHYSICIAN.CONTINUE RINSING EYES DURING

TRANSPORT TO HOSPITAL.

IF SWALLOWED DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING

BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE

SECTION 2.2) AND/OR IN SECTION 11

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED NO DATA AVAILABLE

## SECTION 5. FIRE AND EXPLOSION DATA

**EXTINGUISHING MEDIA** 

SUITABLE USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY

**CHROMIUM OXIDES** 

**EXTINGUISHING MEDIA** CHEMICAL OR CARBON DIOXIDE.

SPECIAL HAZARDS

ARISING FROM THE

SUBSTANCE OR MIXTURE

ADVICE FOR WEAR SELF-CONTAINED BREATHING APPARATUS FOR

**FIREFIGHTERS** FIREFIGHTING IF NECESSARY.

FURTHER INFORMATION USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL
PRECAUTIONS,
PROTECTIVE
EQUIPMENT AND
EMERGENCY
PROCEDURES

WEAR RESPIRATORY PROTECTION. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST.

FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE

AVOIDED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP SWEEP UP AND SHOVEL. CONTAIN SPILLAGE, AND THEN COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET- BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). KEEP IN

SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

## SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.FURTHER PROCESSING OF SOLID MATERIALS MAY RESULT IN THE FORMATION OF COMBUSTIBLE DUSTS. THE POTENTIAL FOR COMBUSTIBLE DUST FORMATION SHOULD BE TAKEN INTO CONSIDERATION BEFORE

ADDITIONAL PROCESSING OCCURS.

PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED.KEEP AWAY FROM

SOURCES OF IGNITION - NO SMOKING. FOR PRECAUTIONS SEE SECTION 2.2.

CONDITIONS FOR SAFE STORAGE, INCLUDING

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND

WELL-VENTILATED PLACE.

ANY INCOMPATIBILITIES

HYGROSCOPIC HEAT SENSITIVE.

STORAGE CLASS (TRGS 510): STRONGLY OXIDIZING

HAZARDOUS MATERIALS

**SPECIFIC END USE(S)** 

APART FROM THE USES MENTIONED IN SECTION 1.2

NO OTHER SPECIFIC USES ARE STIPULATED

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **CONTROL PARAMETERS**

### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL	BASIS
			PARAMETERS	
CHROMIUM	1333-82-0	TWA	0.001000 MG/M3	USA. NIOSH
TRIOXIDE				RECOMMENDED
				EXPOSURE LIMITS

DEMARKS	DOTENTIAL	ACCUIDATION AT A	CARCINICCEN	
REMARKS	POTENTIAL OCCUPATIONAL CARCINOGEN			
	SEE APPENDIX C SEE APPENDIX A			
	SEE APPENDIX A SEE TABLE Z-2 FOR THE EXPOSURE LIMIT FOR ANY			
	OPERATIONS OR SECTORS			
	WHERE THE EXPOSURE LIMIT IN 1910.1026 IS STAYED OR			
	IS OTHERWISE NOT			
	IN EFFECT			
	SUBSTANCE LISTED; FOR MORE INFORMATION SEE OSHA			
	DOCUMENT			
	1910.1026			
		0.050000 MG/M3	USA. ACGIH THRESHOLD	
			LIMIT VALUES	
			(TLV)	
	UPPER RESPI	RATORY TRACT	. /	
	CANCER			
	SUBSTANCES FOR WHICH THERE IS A BIOLOGICAL			
	EXPOSURE INDEX OR INDICES			
	(SEE BEI SECTION)			
	CONFIRMED HUMAN CARCINOGEN			
	VARIES			
	PEL	0.005000 MG/M3	OSHA SPECIFICALLY	
			REGULATED	
			CHEMICALS/CARCINOGENS	
	1910.1026		0.0000	
	THIS STANDARD APPLIES TO OCCUPATIONAL EXPOSURES			
	TO CHROMIUM (VI) IN			
	ALL FORMS AND COMPOUNDS IN GENERAL INDUSTRY,			
	EXCEPT: (A) EXPOSURES THAT OCCUR IN THE APPLICATION OF PESTICIDES			
	REGULATED BY THE			
	ENVIRONMENTAL PROTECTION AGENCY OR ANOTHER			
	FEDERAL GOVERNMENT			
	AGENCY ( E.G., THE TREATMENT OF WOOD WITH			
	PRESERVATIVES); (B)			
	EXPOSURES TO PORTLAND CEMENT; OR (C) WHERE THE			
	EMPLOYER H		, , ,	
	OBJECTIVE DATA DEMONSTRATING THAT A MATERIAL			
	CONTAINING CHROMIUM OR			
	A SPECIFIC PROCESS, OPERATION, OR ACTIVITY			
	INVOLVING CHROMIUM CANNOT			
	RELEASE DUSTS, FUMES, OR MISTS OF CHROMIUM (VI)			
	IN CONCENT			
	OR ABOVE 0.5 MGM/M3 AS AN 8-HOUR TIME-WEIGHTED			
	AVERAGE (TV		OLTIONG OF LIGE	
			DITIONS OF USE.	
	CHROMIUM (VI) [HEXAVALENT CHROMIUM OR CR(VI)] MEANS CHROMIUM			
			E SIX, IN ANY FORM AND IN	
	ANY COMPOU		E SIA, III AIN I FURIVI AIND III	
			ATED CARCINOGEN	
	TWA	0.000200 MG/M3		
	1 11/1		RECOMMENDED	
			EXPOSURE LIMITS	
I		1	JUCIUS EMINIO	

POTENTIAL OCCUPATIONAL CARCINOGEN
SEE APPENDIX C
SEE APPENDIX A

## BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	CAS-NO.	PARAMETERS	VALUE	BIOLOGICAL SPECIMEN	BASIS	
CHD O) (III) (	1222 02 0	TOTAL	25,0000		A COM	
CHROMIUM	1333-82-0			URINE	ACGIH -	
TRIOXIDE		CHROMIUM	MG/L		BIOLOGICAL	
					EXPOSURE	
					INDICES	
					(BEI)	
	REMARKS	END OF SHIFT AT END OF WORKWEEK				
		TOTAL	10.0000	URINE	ACGIH -	
		CHROMIUM	MG/L		BIOLOGICAL	
					EXPOSURE	
					INDICES	
					(BEI)	
		INCREASE DUR	RING SHI	FT		
		TOTAL	25 MG/L	URINE	ACGIH -	
		CHROMIUM			BIOLOGICAL	
					EXPOSURE	
					INDICES	
					(BEI)	
		END OF SHIFT AT END OF WORKWEEK				
		TOTAL	10 MG/L	URINE	ACGIH -	
		CHROMIUM			BIOLOGICAL	
					EXPOSURE	
					INDICES	
					(BEI)	
		INCREASE DUR	ING SHI	FT	I. /	

## **EXPOSURE CONTROLS**

APPROPRIATE AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH **ENGINEERING** HANDS BEFORE BREAKS AND IMMEDIATELY AFTER

**CONTROLS** HANDLING THE PRODUCT.

## PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR **PROTECTION** 

EYE PROTECTION TESTED AND APPROVED UNDER

APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH

(US) OR EN 166(EU).

#### SKIN PROTECTION

HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS.

FULL CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.11 MM

**BREAK THROUGH TIME: 480 MIN** 

MATERIAL TESTED: DERMATRIL (KCL 740, SIZE M)

SPLASH CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.11 MM

**BREAK THROUGH TIME: 480 MIN** 

MATERIAL TESTED: DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

## **BODY PROTECTION**

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

## RESPIRATORY PROTECTION

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

## CONTROL OF ENVIRONMENTAL EXPOSURE

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Brick red flakes

ODOUR NO DATA AVAILABLE
ODOUR THRESHOLD NO DATA AVAILABLE
PH NO DATA AVAILABLE

MELTING

POINT/FREEZING POINT INITIAL BOILING POINT AND BOILING RANGE

FLASH POINT

EVAPORATION RATE NO DATA AVAILABLE FLAMMABILITY (SOLID, NO DATA AVAILABLE

GAS)

UPPER/LOWER NO DATA AVAILABLE

FLAMMABILITY OR EXPLOSIVE LIMITS

VAPOUR PRESSURE NO DATA AVAILABLE VAPOUR DENSITY NO DATA AVAILABLE

RELATIVE DENSITY 2.70 (Lit.)

WATER SOLUBILITY 1.667 G/L - SOLUBLE PARTITION COEFFICIENT: NO DATA AVAILABLE

N- OCTANOL/WATER

AUTO-IGNITION NO DATA AVAILABLE

TEMPERATURE

DECOMPOSITION NO DATA AVAILABLE

TEMPERATURE

VISCOSITY NO DATA AVAILABLE EXPLOSIVE PROPERTIES NO DATA AVAILABLE

OXIDIZING PROPERTIES THE SUBSTANCE OR MIXTURE IS CLASSIFIED AS

OXIDIZING WITH THE CATEGORY 1.

OTHER SAFETY INFORMATION

NO DATA AVAILABLE

#### SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY** NO DATA AVAILABLE

CHEMICAL STABILITY STABLE UNDER RECOMMENDED STORAGE

CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS NO DATA AVAILABLE

**CONDITIONS TO AVOID** HEAT AVOID MOISTURE.

INCOMPATIBLE ORGANIC MATERIALS, PHOSPHORUS, POWDERED

MATERIALS METALS

HAZARDOUS DECOMPOSITION OTHER DECOMPOSITION PRODUCTS - NO DATA

AVAILABLE

**PRODUCTS** IN THE EVENT OF FIRE: SEE SECTION 5

## SECTION 11. TOXICOLOGICAL INFORMATION

## INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY LD50 ORAL - RAT - MALE AND FEMALE - 52 MG/KG

(OECD TEST GUIDELINE 401)

LC50 INHALATION - RAT - MALE - 4 H - 217 MG/M3 LD50 DERMAL - RABBIT - MALE AND FEMALE - 57

MG/KG (OECD TEST GUIDELINE 402)

SKIN - RABBIT

CORROSION/IRRITATION RESULT: CORROSIVE - 24 H

**SERIOUS EYE** EYES - RABBIT

**DAMAGE/EYE IRRITATION** RESULT: CORROSIVE TO EYES

RESPIRATORY OR SKIN SENSITISATION

NO DATA AVAILABLE

**GERM CELL** MAY ALTER GENETIC MATERIAL.

MUTAGENICITY IN VIVO TESTS SHOWED MUTAGENIC EFFECTS

CARCINOGENICITY THIS IS OR CONTAINS A COMPONENT THAT HAS

BEEN REPORTED TO BE CARCINOGENIC BASED ON

ITS IARC, OSHA, ACGIH, NTP, OR EPA CLASSIFICATION. HUMAN CARCINOGEN.

IARC: 1 - GROUP 1: CARCINOGENIC TO HUMANS

(CHROMIUM TRIOXIDE) NTP:

NTP: KNOWN TO BE HUMAN CARCINOGEN (CHROMIUM

TRIOXIDE)

OSHA: OSHA SPECIFICALLY REGULATED CARCINOGEN

(CHROMIUM TRIOXIDE)

REPRODUCTIVE TOXICITY SUSPECTED HUMAN REPRODUCTIVE TOXICANT

MAY CAUSE REPRODUCTIVE DISORDERS.

SPECIFIC TARGET ORGAN

**TOXICITY - SINGLE** 

**EXPOSURE** 

NO DATA AVAILABLE

SPECIFIC TARGET ORGAN

TOXICITY - REPEATED

EXPOSURE

NO DATA AVAILABLE

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL RTECS: GB6650000 INFORMATION MATERIAL IS EXTI

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE

OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES, AND SKIN., COUGH, SHORTNESS OF BREATH, HEADACHE, NAUSEA STOMACH - IRREGULARITIES - BASED ON HUMAN

**EVIDENCE** 

## SECTION 12. ECOLOGICAL INFORMATION

**TOXICITY** 

TOXICITY TO FISH LC50 - TILAPIA MOSSAMBICA - 21.05 - 141.38 MG/L -

96.0 H

LC0 - LEUCISCUS IDUS (GOLDEN ORFE) - 100 MG/L -

48.0 H

TOXICITY TO DAPHNIA AND

OTHER AQUATIC INVERTEBRATES

EC50 - DAPHNIA MAGNA (WATER FLEA) - 0.8 MG/L - 48

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PERSISTENCE AND

DEGRADABILITY

NO DATA AVAILABLE

**BIOACCUMULATIVE** 

**POTENTIAL** 

NO DATA AVAILABLE

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND

VPVB ASSESSMENT

PBT/VPVB ASSESSMENT NOT AVAILABLE AS

CHEMICAL SAFETY ASSESSMENT NOT

REQUIRED/NOT CONDUCTED

OTHER ADVERSE EFFECTS AN ENVIRONMENTAL HAZARD CANNOT BE

EXCLUDED IN THE EVENT OF UNPROFESSIONAL

HANDLING OR DISPOSAL.

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING

EFFECTS.

## SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

**PRODUCT** BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH

AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA

CARE IN IGNITING AS THIS MATERIAL IS HIGHLY

FLAMMABLE. OFFER SURPLUS AND NON-RECYCLABLE

SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

DISSOLVE OR MIX THE MATERIAL WITH A

COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND

SCRUBBER.

CONTAMINATED PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

## SECTION 14. TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: CHROMIUM TRIOXIDE, ANHYDROUS

UN NUMBER: 1463 CLASS: 5.1 (6.1, 8)

PACKING GROUP: II

REPORTABLE QUANTITY

(RQ):

POISON INHALATION N

HAZARD:

NO

**IMDG** 

PROPER SHIPPING NAME: CHROMIUM TRIOXIDE, ANHYDROUS

UN NUMBER: 1463 CLASS: 5.1 (6.1, 8)

PACKING GROUP: II

EMS-NO: F-A, S-Q MARINE POLLUTANT: YES

**IATA** 

PROPER SHIPPING NAME: CHROMIUM TRIOXIDE, ANHYDROUS

UN NUMBER: 1463 CLASS: 5.1 (6.1, 8)

PACKING GROUP: II

## SECTION 15. REGULATORY INFORMATION

**SARA 302 COMPONENTS** 

NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III,

SECTION 302.

**SARA 313 COMPONENTS** THE FOLLOWING COMPONENTS ARE SUBJECT TO

REPORTING LEVELS ESTABLISHED BY SARA TITLE III,

SECTION 313:

CAS-NO. REVISION DATE

Chromium(VI) oxide 1333-82-0 4/24/1993

**SARA 311/312 HAZARDS** REACTIVITY HAZARD, ACUTE HEALTH HAZARD,

CHRONIC HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Chromium(VI) oxide 1333-82-0 4/24/1993

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Chromium(VI) oxide 1333-82-0 4/24/1993

NEW JERSEY RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Chromium(VI) oxide 1333-82-0 4/24/1993

CALIFORNIA PROP. 65 WARNING! THIS PRODUCT CONTAINS A CHEMICAL

**COMPONENTS** KNOWN TO THE STATE OF CALIFORNIA TO CAUSE

CANCER.

CAS-NO. REVISION DATE

Chromium(VI) oxide 1333-82-0 6/6/2014

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

CAS-NO. REVISION DATE

Chromium(VI) oxide 1333-82-0 6/6/2014

## SECTION 16. OTHER INFORMATION

## FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

ACUTE TOX. ACUTE TOXICITY

AQUATIC ACUTE ACUTE AQUATIC TOXICITY
AQUATIC CHRONIC CHRONIC AQUATIC TOXICITY

CARC. CARCINOGENICITY EYE DAM. SERIOUS EYE DAMAGE

H271 MAY CAUSE FIRE OR EXPLOSION; STRONG OXIDISER.

H301 TOXIC IF SWALLOWED.

H301 + H311 TOXIC IF SWALLOWED OR IN CONTACT WITH SKIN

H311 TOXIC IN CONTACT WITH SKIN.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

H318 CAUSES SERIOUS EYE DAMAGE.

H330 FATAL IF INHALED.

H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR

BREATHING DIFFICULTIES IF INHALED.

H340 MAY CAUSE GENETIC DEFECTS.

H350 MAY CAUSE CANCER.

H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN

CHILD.

H372 CAUSES DAMAGE TO ORGANS THROUGH PROLONGED

OR REPEATED EXPOSURE IF INHALED.

H400 VERY TOXIC TO AQUATIC LIFE.

**HMIS RATING** 

HEALTH HAZARD: 4 CHRONIC HEALTH \*

HAZARD:

FLAMMABILITY: 0 PHYSICAL HAZARD 2

NFPA RATING

HEALTH HAZARD: 4
FIRE HAZARD: 0
REACTIVITY HAZARD: 2
SPECIAL HAZARD.I: OX

#### MSDS LEGEND

MW: MOLECULAR WEIGHT
MF: MOLECULAR FORMULA

VOC: VOLATILE ORGANIC COMPOUNDS

ACGIH: AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL

**HYGINISTS** 

CAS: CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV: THRESHOLD LIMIT VALUE (ACGIH)

### IMPORTANT:

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