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RALRUBE INC. -- ALODINE 1201 -- 8030-00-142-9272

Product ID: ALODINE 1201 MSDS Date:08/16/1998 FSC:8030 NIIN:00-142-9272 MSDS Number: CLMFP === Responsible Party === Company Name: RALRUBE INC. Address:36977 FOX GLEN City:FARMINGTON HILLS State:MI ZIP:48331 Country:US Info Phone Num:248-661-0260, FAX 248-661-3941 Emergency Phone Num:248-661-0260 Resp. Party Other M SDS Num.:CODE: 235110 CAGE:6X798 === Contractor Identification === Company Name:RALRUBE INC. Address:36977 FOX GLEN Box:City:FARMINGTON HILLS State:MI ZIP:48331 Country:US Phone:248-661-0260, FAX 248-661-3941 CAGE:6X798 Ingred Name: HYDROFLUORIC ACID CAS:7664-39-3 RTECS #:MW7875000

&It; Wt:1. OSHA PEL:C 3 PPM AS F OSHA STEL:6 PPM ACGIH TLV:C 3 PPM AS F ACGIH STEL:C 2.6 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name

:CHROMIC ACID CAS:7738-94-5 RTECS #:GB2450000 &It; Wt:1. OSHA PEL:0.1 MG/M3 ACGIH TLV:0.05 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM FERRICYANIDE CAS:13746-66-2 RTECS #:LJ8225000 &It; Wt:1. OSHA PEL:NONE OSHA STEL:NONE ACGIH TLV:NONE ACGIH STEL:NONE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:EYES: C ONTACT WITH EYES CAN CAUSE

SEVERE IRRITATION. SKIN CONTACT: CONTACT WITH SKIN CAN CAUSE IRRITATION. CONTACT WITH SKIN CAN CAUSE SEVERE BURNS WHICH MAY NOT BE IMMEDIATELY PAINFUL OR VISIBLE. S KIN ABSORPTION: CHROMIC ACID MAY BE ABSORBED THROUGH SKIN, ESPECIALLY IF SKIN IS DAMAGED. FATAL KIDNEY DAMAGE WAS REPORTED IN A PERSON WHO EVIDENTLY ABSORBED CHROMIUM TRIOXIDE INTO THE BODY. INGESTIO N: NO INFORMATION AVAILABLE. INHALATION: CAN CAUSE IRRITATION OF UPPER RESPIRAT ORY

TRACT AND ULCERATION OF MUCOUS MEMBRANES.

Explanation of Carcinogenicity:CARCINOGEN - CONTAINS CHROMIC ACID. CHROMIUM VI AND IT'S COMPOUNDS: IARC GROUP 1, VOLUME 49, PAGE 49, 1990. NTP 9TH ANNUAL REPORT KNOWN TO BE HUMAN CARCINOGENS LIST.

First Aid:INGESTION: CONTACT A PHYSICIAN IMMEDIATELY . INHALATION: REMOVE TO FRESH AIR. SUPPORT BREATHING. CONTACT A PHYSICIAN IMMEDIATELY . EYE CONTACT: IMMEDIAT

ELY FLUSH EYES WITH POTABLE WATER FO R A MINIMUM OF 15 MINUTES. CONTACT A PHYSICIAN . SKIN CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. CONTACT A PHYSICIAN .
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Extinguishing Media:AS REQUIRED TO EXTINGUISH SURROUNDING FIRE. Fire Fighting Procedures:WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (NIOSH APPROVED - ) AND FULL PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:PRESENTS NO HAZARD IN LIQUID FORM, HOWEVER CHEMICAL CONTAINS STRONG OXIDIZERS WHICH MAY SUPPLY OXYGEN WHEN DRY.
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Spill Release Procedures:WEAR PROTECTIVE CLOTHING. ABSORB OR OTHERWISE COLLECT SPILL AND STORE IN POLYETHYLENE OR POLYETHYLENE-LINED STEEL CONTAINER.
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<ul> <li>Handling and Storage Precautions:DO NOT GET IN EYES</li> <li>, ON SKIN OR ON</li> <li>CLOTHING. CLOTHING OR OTHER COMBUSTIBLE MATERIAL WET WITH THIS</li> <li>MATERIAL AND ALLOWED TO DRY MAY BECOME FLAMMABLE. WASH THOROUGHLY</li> <li>AFTER HANDLING. FOR INDUSTRIAL USE ON LY.</li> <li>Other Precautions:EMERGENCY OVERVIEW: CONTACT CAN CAUSE SEVERE EYE</li> <li>IRRITATION. CAN CAUSE SKIN IRRITATION. CARCINOGEN - CONTAINS</li> <li>CHROMIC ACID.</li> </ul>
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<ul> <li>Respiratory Protection: IF VAPORS OR MIST ARE GENERATED WEAR A NIOSH APPROVED</li> <li>RESPIRATOR.</li> <li>Ventilation: USE WITH ADEQUATE VENTILATION. PROVIDE GENERAL AND LOCAL EXHAUST VENTILATION.</li> <li>Protective Gloves: WEAR CHEMICAL RESISTANT GLOVES SUCH AS NEOPRENE, PVC, BUTYL RUBBER.</li> <li>Eye Protection: (ANSI APPROVED - ) CHEMICAL GOGGLES OR FACE SHEILD (&amp; SAFETY GLASSES - FPN)</li> <li>Other Protective Equipment: WEAR PROTECTIVE CLOTHING SUCH AS RUBBER APRONS, BOOTS AS NECESSARY TO AVOID SKIN CONTACT. EYE WASH FACILITY AND EMERGENCY SHOWER (MEETING ANSI DESIGN CRITERIA - ) SHOULD BE I</li> </ul>

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CLOSE PROXIMITY.

Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING OR USING TOILET. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

Boiling Pt:=100.C, 212.F Vapor Density:NOT APPLIC Spec Gravity:1.0 - 1.1 pH:< 2 Evaporation Rate & amp; Reference:NOT DETERMINED Solubility in Water:COMPLETE Appearance and Odo r:AMBER LIQUID; NO ODOR. Percent Volatiles by Volume:NOT APPLIC

Stability Indicator/Materials to Avoid:YES KEEP SEPARATE FROM ALKALIES. Stability Condition to Avoid:NONE. Hazardous Decomposition Products:CONTAINS LESS THAN 1% POTASSIUM FERRICYANIDE. WHEN HEATED TO DECOMPOSITION OR ON CONTACT WITH STRONG ACIDS POTASSIUM FERRICYANIDE CAN EMIT FUMES OF CYANIDE.

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Toxicological Information:CHROMIC ACID: ORAL RAT LD50: 80 MG/KG. POTASSIUM FERRICYANIDE: ORAL RAT LDL0: 1600 MG/KG. HYDROFLUORIC ACID: INHALATION LC50: 966 PPM/1 HR.

Ecological:NO INFORMATION AVAILABLE.

Waste Disposal Methods: THIS CHEMICAL CONTAINS CHROMIUM COMPOUNDS AND FLUORIDE COMPOUNDS. WASTE TREATMENT AND NEUTRALIZATION MAY BE

## REQUIRED PRIOR TO DISCHARGE TO A SEWER. DISPOSE OF IN COMPLIANCE WITH ALL APPLICABLE FEDERA L, STATE AND LOCAL REGULATIONS.

Transport Information: DOT SHIPPING NAME: NOT DOT REGULATED. CONTAINS CLAUSE: N/A. UN / NA NUMBER: N/A. CLASS: N/A. PACKAGING GROUP: N/A. PRODUCT RQ (LBS): N/A. RQ CLAUSE: N/A. NOTE: RQ INFORMATION IS BASED ON A 55-GAL CONTAINER SIZE. PLEASE REFER TO THE PRODUCT LABEL FOR RQ ON OTHER SIZE CONTAINERS.

SARA Title III Information: SEC 302 EHS: HYDROFLUORIC ACID - YES, CHROMIC ACID - NO, POTASSIUM FERRICYANIDE - NO. SEC 313 LIST: HYDROFLUORIC ACID - YES, CHROMIC ACID - YES, POTASSIUM FERRICYANIDE - NO.

Federal Regulatory Information: CERCLA LIST: HYDROFLUORIC ACID - YES, CHROMIC ACID - YES, POTASSIUM FERRICYANIDE - NO. COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENT

ORY. EPA REACTIVE HAZARD: NO. EPA SUDDEN RELEASE OF PRESSURE: NO. FIRE HAZARD:

NO. EPA IMMEDIATE HEALTH HAZARD: YES. EPA DELAYED HEALTH HAZARD: YES.

State Regulatory Information: CALIFORNIA PROPOSITION 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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