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Product ID:ALODINE 1201 MSDS Date:07/06/1998

FSC:8030

NIIN:00-065-0957 Status Code:A

MSDS Number: CLQYG === Responsible Party ===

Company Name: HENKEL SURFACE TECHNOLOGIES

Address:32100 STEPHENSON HWY

City:MADISON HEIGHTS

State:MI ZIP:48071 Country:US

Info Phone Num:248-583-9300

**Emergency Phone Num:**(

800)424-9300

Preparer's Name: HENRY SIMMONS Chemtrec Ind/Phone: (800) 424-9300

CAGE:1N6B3

=== Contractor Identification ===

Company Name: HENKEL SURFACE TECHNOLOGIES

Address:32100 STEPHENSON HWY

Box:City:MADISON HEIGHTS

State:MI ZIP:48071 Country:US

Phone:248-583-9300

CAGE:1N6B3

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

Ingred Name: POTASSIUM FERRICYANIDE

CAS:13746-66-2 RTECS #:LJ8225000

< Wt:1.

Ingred Name: CHROMIC(VI) ACID

CAS:7738-94-5

RTECS #:GB2450000

< Wt:1.

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SHA PEL:SEE TABLE Z-2 ACGIH TLV:0.05 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: HYDROGEN FLUORIDE

CAS:7664-39-3

RTECS #:MW7875000

< Wt:1.

**OSHA PEL:SEE TABLE Z-2** 

ACGIH STEL:C2.6 MG/M3;C3 PPM

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

======== Hazards Identification =	
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Health Hazards Acute and Chronic:DANGER! CORROSIVE! CONTACT WITH THIS MATERIAL WILL CAUSE BURNS TO THE SKIN, EYES AND MUCOUS MEMBRANES. MAY CAUSE BLINDNESS. CONTACT WITH BROK

EN SKIN MAY RESULT IN ULCERS.

PROLONGED OR REPEATED BREATHI NG MAY CAUSE ULCERATION OF NASAL MEMBRANES. FOLLOWING SKIN EXPOSURE TO THIS PRODUCT, THE SENSATION OF IRRITATION OR PAIN MAY BE DELAYED. CANCER HAZARD.

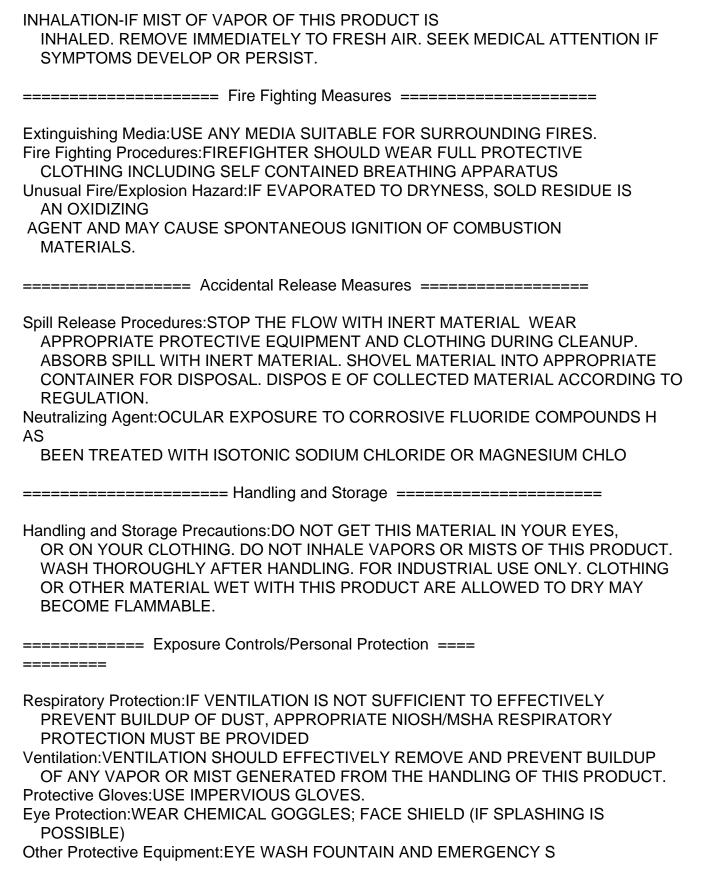
Effects of Overexposure:EYE CONTACT-THIS PRODUCT IS SEVERELY IRRITATING TO THE EYES AND MAY CAUSE IRREVERSIBLE DAMAGE INCLUDING BURNS AND BLINDNESS. SKIN CONTACT-CONTACT WITH BROKEN SKIN MAY LEAD TO FORMATION OF FIRMLY MARG INATED CHROME SORE. PRODUCT CONTAINS

CHROMIUM, WHICH MAY CAUSE AM ALLERGIC SKIN SENSITIZATION REACTION. MASSIVE OVEREXPOSURES MAY LEAD TO KIDNEY FAILURE AND DEATH. FOLLOWING SKIN EXPOSURE TO THIS PROD UCT, THE SENSATION OF IRRITATION OR PAIN MAY BE DELAYED. INGESTION: THIS PRODUCT MAY PRODUCES CORROSIVE DAMAGE TO THE GASTROINTESTINAL TRACT IF IT SWALLOWED.

Medical Cond Aggravated by Exposure:PRE-EXISTING EYE, SKIN AND RESPIRATORY DISORDERS.

	First Aid Measures	
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First Aid:EYE CONTACT IN CASE OF CONTACT WITH THE EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. AND SEEK IMMEDIATE ATTENTION. SKIN CONTACT- IMMEDIATELY TAKE OF ALL CONTAMINATED CLOTHING. FOR SKI N CONTACT. FLUSH WITH LARGE AMOUNTS OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION. IF IRRITATION PERSISTS, REPEAT FLUSHING AND GET MEDICAL ATTENTION. INGESTION-IF THE MATERIAL IS SWALLOWED, GET IMMEDIAT E MEDICAL ATTENTION OR ADVICE. DO NOT INDUCE VOMITING.



HOWERS ARE RECOMMENDED. Supplemental Safety and Health
========== Physical/Chemical Properties ===========
Boiling Pt:=100.C, 212.F Spec Gravity:1.0 -1.1 Solubility in Water:COMPLETE Appearance and Odor:AMBER LIQUID
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Stability Indicator/Materials to Avoid:YES AVOID CONTACT WITH ORGANIC MATERIAL, OILS, GREASE, AND ANY OXIDIZABLE MATERIAL. THIS PRODUCT MAY REACT WITH STRONG ALKALIES. Stability Condition to Avoid:NONE EXPECTED
Hazardous Decomposition Products:MAY LIBERATE HYDROGEN FLUORIDE, WHEN HEATED TO DECOMPOSITION OR ON CONTACT WITH STRONG ACIDS POTASSIUM FERRICYANIDE MAY EMIT FUMES OF CYANIDE.
========== Toxicological Information ============
Toxicological Information:CHROMIC ACID: RAT-ORAL-LD50 ? 80 MG/KG POTASSIUM FERRICYANIDE RAT- ORAL ?1600 MG/KG ORAL LD50 MOUSE: 2970 MG/KG HYDROGEN FLUORIDE (7554-35-3) INHALATION LC50 MOUSE: 342 PPM/1H INHA
LATION LC50 RAT: 1276 PPM/1H HYDROGEN FLUORIDE  (7664-39-3) NOT CLASSIFY AS A HUMAN CARCINOGEN (ACGIH) CHROMIUM  ACID (7738-94-5) A1 CONFIRMED HUMAN CARCINOGEN (ACGIH) OCCUPATIONAL  CARCINOGEN (NIOSH) MONOGRAPH 49: 1 990 (IARC) MUTAGENCITY: NO  INFORMATION AVAILABLE FOR THE PRODUCT. CHROMIUM VI COMPOUNDS HAVE  BEEN MUTAGENIC IN BACTERIA, CAUSED CHROMOSOME ABARATIONS CELLS AND  HEVE BEEN ASSOCIATED WITH INCREASED FREQ UENCIES OF CHROMOSOME  ABBERRATIONS.
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Ecological:NO DATA AVILABLE FOR THIS PRODUCT. BECAUSE OF THE LOW PH OF THIS PRODUCT. IT WOULD BE EXPECTED TO PRODUCE SIGNIFICANT ECOTOXICITY UPON EXPOSURE TO AQUATIC ORGANISMS AND AQUATIC SYSTEMS.
======== Disposal Considerations ============
Waste Disposal Methods:DISPOSE OF WASTE MATERIAL ACCORDING TO LOCAL,

Waste Disposal Methods:DISPOSE OF WASTE MATERIAL ACCORDING TO LOCAL STATE, FEDERAL, AND PROVINCIAL ENVIRONMENTAL REGULATIONS.
NEUTRALIZE THE SPILLED MATERIAL BEFOR

E DISPOSAL.
========= MSDS Transport Information ===========
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.
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SARA Title III I  nformation:THIS MATERIAL CONTAINS ONE OR MORE OF THE  FOLLOWING CHEMICALS REQUIRES TO BE IDENTIFIED UNDER SARA SECTION 302 (40 CFR 355 APPENDIX A), SARA SECTION 313 (40 CFR 372.65)  AND/OR CERCLA (40 CFR302.4). HY DROGEN FLUORIDE 7664-39-3, CHROMIC  ACID 7738-94-5.  Federal Regulatory Information:POTASSIUM FERRIOYANDE 13746-66-2,  HYDROGEN FLUORIDE 7664-39-3, CHROMIC ACID 7738-94-5.  State Regulatory Information:WARNING! THIS PRODUCT CONTAINS A CHEMICAL  KNOWN O THE STATE OF CA  LIFORNIA TO CAUSE CANCER. POTASSIUM  FERRIOYANIDE 13746-66-2. HYDROGEN FLUORIDE 7664-38-3. CHROMIC ACID.  7738-94-5.
============ Other Information ==============
Disclaimer (provided with this information by the compiling agencies):

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