

HARCROS CHEMICALS INC. -- ISOPROPYL ALCOHOL 99 % -- 6810-00-822-7637

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Product Identification  
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Product ID:ISOPROPYL ALCOHOL 99 %

MSDS Date:09/14/1995

FSC:6810

NIIN:00-822-7637

Status Code:A

MSDS Number: CJLWC

=== Responsible Party ===

Company Name:HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Info Phone Num:913-321-3131

Emer

gency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:00032/02

Chemtec Ind/Phone:(800)424-9300

CAGE:3H606

=== Contractor Identification ===

Company Name:CHEMICAL MANAGEMENT SYSTEMS LLC DBA CHEMICAL MANAGEMENT  
SYST

Address:11029 NATURAL BRIDGE

Box:City:BRIDGETON

State:MO

ZIP:63044

Country:US

Phone:314-731-7278

Contract Num:SP0450-99-M-NH75

CAGE:1LFJ4

Company Name:HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Phone:913-321-31

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Composition/Information on Ingredients  
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Ingred Name:ISOPROPYL ALCOHOL  
CAS:67-63-0  
RTECS #:NT8050000  
= Wt:100.  
OSHA PEL:980 MG/M3;400 PPM  
ACGIH TLV:983 MG/M3;400 PPM  
ACGIH STEL:1230 MG/M3;500 PPM

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS: LIVER, KIDNEYS. EYES:  
MAY CAUSE IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE  
DAMAGE. SKIN: MAY CAUSE MILD IRRITATION. PROLONGED OR REPEATED  
CONTACT MAY CAUSE DEFATTING & DERMATITIS. INHALATION: MAY CAUSE  
IRRITATION. PROLONGED OR REPEATED OVEREXPOSURE MAY CAUSE CENTRAL  
NERVOUS SYSTEM DEPRESSION. INGESTION: MAY CAUSE IRRITATION & SHOCK  
SYMPTOMS.  
Explanation of Carcinogenicity:NO COMPONENTS, PRESENT IN EXCESS OF 0.1%  
BY WEIGHT ARE LISTED AS CARCINOGENS BY IARC, NTP, OR OSHA.  
Effects of Overexposure:SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE  
DRYING. INHALATION: MAY CAUSE COUGHING, DEPRESSION, GIDDINESS,  
DIZZINESS, CONFUSION, DRUNKEN BEHAVIOR, HEADACHE, NAUSEA, DIARRHEA,  
VOMITING, TIREDNESS & DROWSINESS. STUPOR, CONVULSIONS,  
UNCONSCIOUSNESS, COMA, & EVEN DEATH. INGESTION: MAY CAUSE PAIN,  
NAUSEA, VOMITING, DIARRHEA, SHOCK SYMPTOMS (RAPID PULSE, SWEATING,  
COLLAPSE).  
Medical Conditions Aggravated by Exposure:DISORDERS OF THE EYES, SKIN, AND  
RESPIRATORY SYSTEM.

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First Aid Measures  
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First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15  
MIN, WHILE HOLDING EYELIDS APART TO ENSURE FLUSHING OF ENTIRE  
SURFACE. CALL A PHYSICIAN. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF  
WATER FOR AT LEAST 15 MIN, WHILE REMOVING CONTAMINATED CLOTHING &  
SHOES. CALL A PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. IF NOT  
BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH.  
INGESTION: GIVE ORAL FLUIDS IF AWAKE AND NOT VOMITING.

ION: INDUCE VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER & STICKING FINGER DOWN THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN.

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

Flash Point Method:COC

Flash Point:>11.7C, 53.F

Lower Limits:2.5

Upper Limits:12.1

Extinguishing Media:WATER FOG, ALCOHOL FOAM, DRY CHEMICAL, CARBON DIOXIDE.

Fire Fighting Procedures:PREVENT HUMAN EXPOSURE TO FIRE, FUMES, SMOKE, AND PRODUCTS OF

COMBUSTION. EVACUATE NON ESSENTIAL PERSONNEL.

FIREFIGHTERS SHOULD WEAR FULL FACE, SELF CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:VAPOR MAY TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW AREAS. EVEN WATER SOLUTIONS CAN BE FLAMMABLE. INTENSE HEAT MAY CAUSE PRESSURE BUILDUP AND RUPTURE CONTAINER.

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

Spill Release Procedures:EVACUATE NON-ESSENTIAL PERSONNEL, ELIMINATE IGNITION SOURCES, & WEAR PROTECTIVE EQUIPMENT. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. CONTAIN SPILL. RECOVER FREE PRODUCT. TO CLEAN UP RESIDUE, FLUSH SPARINGLY WITH WATER OR USE AN ABSORBENT. AVOID RUNOFF TO GROUND WATER, SURFACE WATER, & SEWERS. IT MAY BE

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

Handling

and Storage Precautions:KEEP HEAT, LIGHTS, FIRE, & SPARKS AWAY. DRUM MUST BE GROUNDED & BONDED TO RECEIVING CONTAINER WHEN BEING EMPTIED. FOR INDUSTRIAL USE ONLY. USE SPARK PROOF TOOLS WHEN HANDLING. ALUMINUM EQUIPMENT IS NOT RECOMMENDED.

Other Precautions:THIS CONTAINER HAZARDOUS WHEN EMPTIED. ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED.

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

Respiratory Protection:IF EXPOSURE LIMITS ARE EXCEEDED, OR IF EXPOS

URE

MAY OCCUR, USE A NIOSH/MSHA RESPIRATOR APPROVED FOR YOUR CONDITIONS OF EXPOSURE. REFER TO THE MOST RECENT NIOSH PUBLICATIONS CONCERNING CHEMICAL COMPLIANCE WITH OSHA REQUIREMENTS IN 29 CFR 1910.134. FOR EMERGENCIES, A NIOSH/MSHA APPROVED POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE READILY AVAILABLE.

Ventilation:ADEQUATE VENTILATION IS REQUIRED TO MINIMIZE EXPOSURE OR TO MAINTAIN EXPOSURE LEVELS BELOW OSHA/ACGIH REQUIREMENTS.

Protective Gloves:IMPERVIOUS

Eye Protection:

SAFETY GLASSES, CHEMICAL GOGGLES.

Other Protective Equipment:SAFETY SHOWER, EYE WASH FOUNTAIN, AND WASHING FACILITIES SHOULD BE READILY AVAILABLE. CLEAN BODY COVERING CLOTHING.

Work Hygienic Practices:ALWAYS WEAR EYE PROTECTION WHEN WORKING WITH CHEMICALS. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:=82.2C, 180.F

Melt/Freeze Pt:=-88.9C, -128.F

Vapor

Pressure:33.000 @ 68 F

Vapor Density:207.00000

Spec Gravity:0.7854 @ 20 F

pH:N/D

Evaporation Rate & Reference:N/D

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS TO LIGHTLY COLORED LIQUID, AROMATIC ODOR.

Percent Volatiles by Volume:N/D

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

Stability Indicator/Materials to Avoid:YES

BLEACHING AGENTS (OXIDIZERS) INORGANIC BASES, ORGANIC BASES, AVOID CONTACT WITH BLEACHING AGENTS AND OXIDIZERS WHICH INCLUDE CHLORINE,

OXYGEN, PERMANGANATES, PERCHLORATES, PERCARBONATES, PEROXIDES, CHROMATES, HYPOCHLORITES,

Stability Condition to Avoid:HEAT, HEATED SURFACES, STATIC ELECTRICITY, ELECTRIC ARCS, SPARKS AND FLAMES.

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, MISCELLANEOUS ORGANIC COMPOUNDS, SOME POSSIBLY TOXIC.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Ecological Information =====

Ecological:AT VERY LOW CONCENTRATIONS (LESS THAN

10 PPM) THIS MATERIAL  
CAN BE BIODEGRADED IN A BIOLOGICAL WASTE WATER TREATMENT PLANT.

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

Waste Disposal Methods: SOLIDS MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. RECOVERED LIQUIDS MAY BE REPROCESSED OR INCINERATED. INCINERATION MUST BE HANDLED IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE & LOCAL REGULATIONS.

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== MSDS Transport Information =====

Transport Information: PROPER SHIPPING NAME: ISOPROPANOL. HAZARD CLASS 3, UN1219, PG II.

===== Other Information =====

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