

===== Product Identification =====

Product ID:ISOPROPYL ALCOHOL

MSDS Date:11/12/1987

FSC:6810

NIIN:00-855-1158

MSDS Number: BHCCF

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info Phone Num:606-324-1133

Emergency Phone Num:606-324-1133

CAGE:5A188

=== Contractor Identification ===

Company N

ame:ASHLAND CHEMICAL CO

Address:5200 PAUL BLAZEL MEMORIAL PARKWAY

Box:City:DUBLIN

State:OH

ZIP:43017

Country:US

Phone:614-889-4505

CAGE:5A188

Company Name:ASHLAND INC

Address:1409 WINCHESTER AVE

Box:391

City:ASHLAND

State:KY

ZIP:41114

Country:US

Phone:800-622-6846

CAGE:81355

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

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

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Ingred Name:ISOPROPYL ALCOHOL (SARA III)
CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: >95%
Other REC Limits:NONE SPECIFIED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9394

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 ORAL RAT=5045 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE:INHALATION & INGESTION MAY CAUSE
CNS DEPRESSION.INHALA
TION MAY CAUSE RESPIRATORY IRRITATION.CONTACT
WITH SKIN & EYES MAY CAUSE IRRITATION.INGESTION MAY CAUSE GI TRACT
IRRITATION.ASPIRATION MAY C AUSE LUNG DAMAGE.CHRONIC:PROLONGED OR
REPEATED EXPOSURE MAY CAUSE NERVE DAMAGE,VISUAL
DISTURBANCES,DERMATITIS.
Explanation of Carcinogenicity:NO INGREDIENTS OF A CONCENTRATION OF
0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:EYE:CAN CAUSE SEVERE IRRITATION,REDNESS,
TEARING,BLURRED VISION;
SKIN:MODERATE
IRRITATION,DEFATTING,DERMATITIS; INHALE:EXCESSIVE INHALATION OF
VAPOR CAN CAUSE NASAL & RESPIRATORY IRRITATION,CENTRAL NE RVIOUS
SYSTEM EFFECTS:DIZZINESS,WEAKNESS,NAUSEA, HEADACHE,ETC.;
INGEST:GASTROINTESTINAL IRRITATION,NAUSEA,VOMITTING,ETC.
Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED LUNG FUNCTION
OR ASTHMA OR PREEXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO
THE EFFETCS OF THIS MATERIAL.

===== First Aid Measures =====

First Aid:EYES-FLUSH WITH LOTS OF WATER FOR 15 MINUTES.SEE
DOCTOR.SKIN-REMOVE CONTAMINATED CLOTHING & SHOES.WASH WITH SOAP &
WATER.SEE DOCTOR.INHALATION-REMOVE VICTIM TO FRESH AIR.RESTORE
BREATHING IF NEEDED.SE E DOCTOR.INGESTION-IF CONSCIOUS,DRINK TWO
GLASSES OF WATER & INDUCE VOMITTING BY EITHER GIVING IPECAC SYRUP
OR BY PLACING FINGER AT BACK OF THROAT.SEE DOCTOR.

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

Flash Point Method:

TCC
Flash Point:53.0F,11.7C
Lower Limits:2
Extinguishing Media:ALCOHOL FOAM, CARBON DIOXIDE, WATER SPRAY OR DRY
CHEMICAL.
Fire Fighting Procedures:WEAR SCBA WITH A FULL FACEPIECE OPERATED IN
THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRE. USE WATER TO
COOL FIRE EXPOSED CONTAINERS.
Unusual Fire/Explosion Hazard:FLASHBACK ALONG VAPOR TRAIL MAY OCCUR.
THIS MATERIAL IS EXTREMELY FLAMMABLE AND MAY BE IGNITED BY HEAT,
SPARKS, FLAME, OR STATIC ELECTRICITY.

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Accidental Release Measures =====

Spill Release Procedures:STAY UPWIND & AWAY FROM SPILL. ELIMINATE
IGNITION SOURCES. VENTILATE AREA. KEEP OUT OF DRAINS, SEWERS, &
WATERWAYS. LIQUID MAY BE ABSORBED IN INERT ABSORBENT & PLACED INTO
APPROPRIATE DISPOSAL CONTAINER & SEAL. NOTIFY AUTHORITIES IF
REQUIRED.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED
PLACE AWAY FROM IGNITION SOURCES & INCOMPATIBLE MATERIALS.KEEP
CONTAINERS CLOSED WHEN NOT IN USE.
Other Precautions:"EMPTY" CONTAINERS MAY CONTAIN RESIDUE AND CAN BE
DANGEROUS. DO NOT PRESSURIZE,CUT,WELD,BRAZE,SOLDER,DRILL,GRIND OR
EXPOSE TO SOURCES OF IGNITION. THEY MAY EXPLODE & CAUSE INJURY OR
DEATH. AVOID INHALATION OF VAPORS & DIRECT CONTACT.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE
OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED SUPPLIED AIR
RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134 AND
MANUFACTURER'S RECOMMENDATIONS.
Ventilation:SUFFICIENT EXPLOSION-PROOF MECHANICAL (GENERAL) AND/OR
LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLV.
Protective Gloves:RUBBER,PVA,PVC
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES
Other Protective Equipment:IMPERVIOUS CLOTHING AND BOOTS AS NEEDED. EYE
WASH STATION

N & SAFETY SHOWER AVAILABLE FOR EMERGENCIES.

Work Hygienic Practices:AVOID CONTACT WITH EYES & SKIN.DO NOT BREATHE VAPORS.WASH THOROUGHLY AFTER HANDLING.LAUNDER CONTAMINATED CLOTHING.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:B.P. Text:80.0F,26.7C

Vapor Pres:33 MM HG

Vapor Density:2.0

Spec Gravity:0.783

Evaporation Rate & Reference:7.7 (ETHYL ETHER = 1)

Solubility in Water:APPRECIABLE

Appearance and Odor:CO

LORLESS LIQUID.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:DLA-HMIS: AVOID SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, ETC.

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

Waste Disposal Methods:DISPOSE OF

IN ACCORDANCE WITH ALL APPLICABLE

FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. DLA-HMIS:

EPA/RCRA WASTE NUMBER D001 (IGNITABLE) MAY APPLY TO

UNUSED/UNCONTAMINATED PRODUCT.

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