

UNION CARBIDE CORP., LINDE DIVISION -- ISOPROPANOL, ANHYDROUS -- 6810-00-855-1158  
===== Product Identification =====

Product ID: ISOPROPANOL, ANHYDROUS

MSDS Date: 05/15/1989

FSC: 6810

NIIN: 00-855-1158

MSDS Number: BJLKG

=== Responsible Party ===

Company Name: UNION CARBIDE CORP., LINDE DIVISION

Address: 39 OLD RIDGEBURY ROAD

City: DANBURY

State: CT

ZIP: 06817-0001

Country: US

Info Phone Num: 800-822-4357

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Emergency Phone Num: 800-822-4357

CAGE: 61637

=== Contractor Identification ===

Company Name: UNION CARBIDE CORP

Address: 39 OLD RIDGEBURY ROAD

Box: City: DANBURY

State: CT

ZIP: 06817-0001

Country: US

Phone: 800-822-4357/732-563-5522 (MSDS)

CAGE: 61637

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

Ingred Name: ISOPROPYL ALCOHOL (SARA III)

CAS: 67-63-0

RTECS #: NT8050000

Fraction by Wt: 100%

Other REC Limits: NONE SPECIFIED

OSHA PEL: 400 PPM/500 STEL

ACGIH TLV: 400 PPM/500 STEL; 9192

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===== Hazards Identification =====  
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LD50 LC50 Mixture:LD50 (ORAL RAT) IS 5045 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYES:CAUSES SLIGHT TO MODERATE IRRITATION,WITH POSSIBLE CORNEAL INJURY.SKIN:PROLONGED CONTACT MAY CAUSE DRYING.INHALATION:LOW CONCENTRATIONS MAY CAUSE MILD IRRITATION TO NOSE & THROAT.HIGH CONCE NTRATIONS MAY CAUSE HEADACHE

& DROWSINESS.INGESTION:SLIGHTLY TOXIC.LARGE QUANTITY MAY CAUSE LOSS OF CONSCIOUSNESS.

Explanation of Carcinogenicity:IARC INDICATES "INADEQUATE EVIDENCE AS TO ITS CARCINOGENICITY TO HUMAN".

Effects of Overexposure:EYE:SLIGHT-MODERATE IRRITATION WITH POSSIBLE CORNEAL INJURY.SKIN:CRACKING.INHALATION:MAY CAUSE DROWSINESS,IRRITATION OF THE NOSE AND THROAT.SWALLOWING:LARGE QUANTITY MAY CAUSE DROWSINESS & LOSS OF CON SCIOUSNESS.STOMACH CRAMPS,PAIN,NAUSEA,VOMITING AND DIARRHEA MAY ALSO OCCUR.

Medical Cond Aggravated by Exposure:NONE CURRENTLY KNOWN

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===== First Aid Measures =====  
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First Aid:EYE:FLUSH W/WATER 15 MIN,HOLD LIDS OPEN.CALL A DOCTOR.SKIN:WASH AREA WITH WATER.INHALED:REMOVE TO FRESH AIR.GIVE CPR/OXYGEN IF NECESSARY.CALL A DOCTOR AS SOON AS POSSIBLE.INGESTION:GIVE TWO GLASSES OF WATER AND INDUCE VOMITING.IF A SIGNIFICANT QUANTITY HAS BEEN SWALLOWED, GET MEDICAL ATTENTION PROMPTLY.

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=== Fire Fighting Measures =====  
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Flash Point Method:CC

Flash Point:53.0F,11.7C

Lower Limits:2.0

Upper Limits:12.7 @ 200F

Extinguishing Media:APPLY ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAMS BY MANUFACTURER'S RECOMMENDED TECHNIQUES FOR LARGE FIRES.CO2, DRY CHEMICAL

Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:VAPORS FORM FROM THIS PRODUCT AND MAY TRAVEL

BY AIR CURRENTS AND IGNITED BY PILOT  
LIGHTS, SPARKS, HEATERS, ELECTRICAL EQUIPMENT AND STATIC DISCHARGES.

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

Spill Release Procedures: EXTINGUISH AND DO NOT TURN ON ANY IGNITION SOURCE UNTIL AREA IS DETERMINED TO BE FREE FROM EXPLOSION OR FIRE HAZARDS. COLLECT LARGE SPILLS FOR DISPOSAL. FLUSH SMALL SPILLS WITH WATER.

Neutralizing Agent: NONE

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

Handling

and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED. USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS AND FLAMES.

Other Precautions: WARNING! FLAMMABLE. CAUSES EYE IRRITATION. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection: SELF-CONTAINED BREATHING APPARATUS IS HIGH CONCENTRATIONS.

Ventilation: GENERAL (MECHANICAL). LOCAL VENTILATION IS NEEDED AT THE

POINTS WHERE VAPORS ARE EXPECTED TO ESCAPE TO THE WORKPLACE AIR.

Protective Gloves: BUTYL RUBBER

Eye Protection: MONOGOGGLES

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT.

Supplemental Safety and Health

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

HCC: F2

Boiling Pt: B.P. Text: 180F, 82C

Melt/Freeze Pt: M.P/F.P Text: -127F, -88C

Vapor Pres: 33

Vapor Densi

ty:2.07  
Spec Gravity:0.7864  
Evaporation Rate & Reference:2.88 (N-BUTYL ACETATE=1)  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS LIQUID; CHARACTERISTIC ODOR  
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES  
CONCENTRATED SULFURIC AND NITRIC ACIDS, STRONG OXIDIZERS, ALDEHYDES,  
HALOGENS, AND HALOGEN COMPOUNDS  
Stability Condition to Avoid:HEAT, SPARKS, FLAME  
Hazardous Decomposition Products:CARBON MONOXIDE AND/OR CARBON DIOXIDE

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

Waste Disposal Methods:INCINERATE IN A FURNACE WHERE PERMITTED UNDER  
APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS. AT VERY LOW  
CONCENTRATION IN WATER ( 10PPM),THIS PRODUCT CAN BE READILY  
BIODEGRADED IN A BIOLOGICAL WASTEWATER TREATMENT PLANT.

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