

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300
HAZARD RATING

4-EXTREME	Health Hazard	1
3-SEVERE	Flammability	4
2-MODERATE	Reactivity	2
1-SLIGHT		
0-MINIMAL		

IMPORTANT
MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
 OSHA requires that this form be kept on file.

Product No. KM 641 M
Product Name ISOPROPYL ALCOHOL

SECTION I	NAME
Chemical Synonyms	2- Propanol
Formula	CH ₃ CHOHCH ₃
C.A.S. No.	67-63-0

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES			
Principal Hazardous Component(s)	%	P.E.L.	TLV Units
Isopropyl Alcohol*	N/A	N/A	N/A

* chemical subject to the reporting requirements of SARA Title III.

SECTION III PHYSICAL DATA			
Melting Point (°F)	-89° C	Specific Gravity (H₂O=1)	.79
Boiling Point (°F)	82° C	Percent Volatile by Volume (%)	100 %
Vapor Pressure (mm Hg)	33 @ 25° C	Evaporation Rate (Buret Acetate =1)	1.7
Vapor Density (Air=1)	2.1		
Solubility in Water	100 %		
Appearance & Odor	Clear colorless liquid, mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA							
Flash Point (Method Used)	12° C closed cup	Flammable Limits in Air % by Volume	<table border="1"> <tr> <td>Lower</td> <td>Upper</td> </tr> <tr> <td>2.0</td> <td>12.0</td> </tr> </table>	Lower	Upper	2.0	12.0
Lower	Upper						
2.0	12.0						
Extinguisher Media	Water spray, dry chemical, alcohol foam, or carbon dioxide, Water spray may be used to keep fire exposed containers cool.						

Special Firefighting Procedures
 In the event of a fire, wear full protective clothing and NIOSH- approved contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Water may be used to dilute spills to a non- flammable mixture.

Unusual Fire and Explosion Hazards
FLAMMABLE! Autoignition temperature 399°C.
 Above flash point, vapor air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire or explosion.

D.O.T. Isopropanol, 3, UN1219, PGII

SECTION V HEALTH HAZARD DATA
Threshold Limit Value
 400 ppm (TWA)

Effects of Overexposure
Acute; irritation to skin, eyes, lungs, mucous membranes, and GI tract. Nausea, narcosis, drowsiness, dizziness.
Chronic : Dermatitis.

Emergency and First Aid Procedures
Skin: Remove contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.
EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
INHALATION: Remove to fresh air, if not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN :
INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION VI REACTIVITY DATA	
Stability	Conditions to Avoid
Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	Avoid heat and ignition sources.
Incompatibility (Materials to Avoid)	Strong oxidizer, aluminum, perchloric acid, ethylene oxide.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Conditions to Avoid
May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	None

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled
 Ventilate area of leak or spill. Remove all sources of ignition. Clean up personnel require protective clothing and respiratory protection from vapors. Small spills may be absorbed on paper towels and evaporated in fume hood. Allow enough time for fumes to clear hood, then ignite paper in a suitable location away from combustible materials. Contain and recover liquid when possible.

Waste Disposal Method
 Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Can be liquid incinerated in RCRA approved combustion chamber or absorbed with vermiculite, dry sand, earth or similar materials. Scoop up with non-sparking tools and place in closed container, and dispose in a RCRA approved facility. Do not flush to sewer.

SECTION VIII SPECIAL PROTECTION INFORMATION			
Respiration Protection (Specify Type)	Organic cartridge.		
Ventilation	Local Exhaust	X	Special
	Mechanical (General)	X	Other
Protective Gloves	Poly or rubber	Eye Protection	Goggles
Other Protective Equipment	Lab coat		

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
 Keep container tightly closed when not in use.
 Store in cool, well ventilated place.

Other Precautions
 Read label on container before using. Do not wear contact lenses when working with chemicals.
Conditions Aggravated/ Target organs: Persons with pre-existing skin, eye, respiratory disorders may be more susceptible.

Approved by Steven C. Quandt **Effective Date** 10/25/94 **For laboratory use only. Not for drug, food or household use. Keep out of reach of children.**