## **ISOPROPYL CYCLOHEXANE**

7. SHIPPING INFORMATION

7.1 Grades of Purity: 97%

7.2 Storage Temperature: Ambient

7.3 Inert Atmosphere: No requirement

		ARY RESPO	NSE INFORMATION		
Common Syno Hexahydrocumene 1-Methylethylcyclohe Normenthane	nyms xane	Liquid	Colorless	4.1 4.2 4.3	Flash Point: 96°F C.C. Flammable Limits in Air: Currently not available Fire Extinguishing Agents: Foam, carbon dioxide, dry chemical
Keep peop Shut off ign Avoid conta Stay upwin Notify local	e away. ition sources a act with liquid a d and use wate health and po	and call fire departme and vapor. er spray to ``knock do llution control officials	nt. wn" vapor.	4.4 4.5 4.6	Fire Extinguishing Agents Not to Be Used: Water may not be effective on f Special Hazards of Combustion Products: Currently not available Behavior in Fire: Currently not available
Fire	COMBUSTIE Flashback a Vapor may e Water may b Extinguish w Cool expose	BLE. long vapor trail may c explode if ignited in ar be ineffective on fire. vith foam, dry chemica ed containers with wa	ccur. enclosed area. Is, or carbon dioxide. er.	4.7 4.8 4.9 4.10	Auto Ignition Temperature: 541 °F Electrical Hazards: Currently not available Burning Rate: Currently not available 0 Adiabatic Flame Temperature: Curren not available 1 Sciebenergica bit to Eurol Paties 64.2
Exposure         CALL FOR MEDICAL AID           VAPOR         Irritating to eyes, nose, and throo           Irritating to eyes, nose, and throo         Irritating to eyes, nose, and throo           Wove to fresh air.         If breathing has stopped, give art           If breathing is difficult, give oxyge         LIQUID           Irritating to skin and eyes.         Harmful if swallowed.           Remove contaminated clothing a Flush affected areas with plenty         IF IN EYES: hopd eyelids open a IF SWALLOWED and victim is C           Water         Dangerous to aquatic life in high			t. usea, vomiting, or loss of consciousness. ficial respiration. n.	4.12	(calc.) 2 Flame Temperature: Currently not available 3 Combustion Molar Ratio (Reactant t Product): 18.0 (calc.) 4 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5. CHEMICAL REACTIVITY Reactivity with Water: No reaction
			Id shoes. f water. nd flush with plenty of water. NSCIOUS: have victim drink water or milk. concentrations.	5.2 5.3 5.4 5.5	Reactivity with Common Materials: No reaction Stability During Transport: Stable Neutralizing Agents for Acids and Caustics: Not pertinent Polymerization: Not pertinent
Pollution	May be dan Notify local I Notify opera	gerous if it enters wat health and wildlife offi tors of local water int	er intakes. cials. akes.	5.6	Inhibitor of Polymerization: Not pertine     6. WATER POLLUTION
<ol> <li>CORRECTIVE RESPONSE ACTIONS Stop discharge</li> <li>I. CORRECTIVE RESPONSE ACTIONS IN Proceedings of the second second</li></ol>			2. CHEMICAL DESIGNATIONS     2.1 CG Compatibility Group: Not listed.     2.2 Formula: (CH);CGHtri:     3.1 MO(UN Designation: Not listed     2.3 MO(UN Designation: Not listed     2.5 CAS Registry No.: 696-29-7     2.6 NAERG Guide No.: Not listed     2.7 Standard Industrial Trade Classification:     51129  AZARDS cor canister, supplied-air, or hose mask, chemical goggies or face splash shield, ausea and vomiting. Concentrated vapor may ictim to fresh air; if breathing stops, give artificial     YE CONTACT: Remove contaminated clothing and nutes; call a physician.	6.2 6.3 6.4 6.5	TL=96 = 100 - 1000 ppm Waterfowl Toxicity: Currently not available Biological Oxygen Demand (BOD): Currently not available Food Chain Concentration Potential: Currently not available GESAMP Hazard Porfile: Bioaccumulation: 0 Damage to living resources: (3) Human Oral hazard: 0 Human Contact hazard: 0 Reduction of amenities: 0

	1.3 Inell Autosphere. No requirement					
ents: Foam, emical	7.4 Venting: Currently not available					
ents Not to Be	7.5 IMO Pollution Category: C					
be effective on fire	7.6 Ship Type: 3					
mbustion ot available	7.7 Barge Hull Type: Currently not available					
ntly not available	8. HAZARD CLASSIFICATIONS					
ture: 541°F	8.1 49 CFR Category: Not Listed					
rently not	8.2 49 CFR Class: Not Pertinent					
/ not available	8.3 49 CFR Package Group: Not listed.					
perature: Currently	8.4 Marine Pollutant: No					
,	8.5 NFPA Hazard Classification:					
uel Ratio: 64.3	Category Classification Health Hazard (Blue) 1					
Currently not	Flammability (Red)					
	Instability (Yellow)					
tio (Reactant to	8.6 EPA Reportable Quantity: Not listed.					
centration for	8.7 EPA Pollution Category: Not listed					
Not listed	8.8 RCRA Waste Number: Not listed					
	8 9 FPA FWPCA List: Not listed					
ACTIVITY	0.5 EFAT WE GALIST. Notlisted					
No reaction on Materials: No	9. PHYSICAL & CHEMICAL PROPERTIES					
oort: Stable	9.1 Physical State at 15° C and 1 atm: Liquid					
r Acids and	9.2 Molecular Weight: 126.24					
nt rtinent	<b>9.3 Boiling Point at 1 atm:</b> 310°F = 154.5°C = 428°K					
tion: Not pertinent	9.4 Freezing Point: -129°F = -89.4°C = 184°K					
	9.5 Critical Temperature: Currently not available					
LUTION	9.6 Critical Pressure: Currently not available					
	9.7 Specific Gravity: 0.8023 @ 20°C					
m rronthy pot	9.8 Liquid Surface Tension: Currently not available					

- 9.9 Liquid Water Interfacial Tension: Currently not available
- 9.10 Vapor (Gas) Specific Gravity: 4.35 (est)
  9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
- **9.12 Latent Heat of Vaporization:** (est) 20,035 Btu/lb = 11,131 cal/g = 466 X 10<sup>5</sup> J/kg
- 9.13 Heat of Combustion: Currently not available9.14 Heat of Decomposition: Currently not available
- 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Currently not
- 9.16 Heat of Polymerization: Currently not available
- 9.17 Heat of Fusion: Currently not available9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available
   9.19 Available

NOTES

## **ISOPROPYL CYCLOHEXANE**

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
68	50.090		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVA-LABLE		CJRRENTLY NOT AVA-LABLE

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	C U R R E N T L Y N O T A V A I L A B L E	160 170 180 200 210 220 230 240 250 260 270 280 290 300	0.928 1.192 1.510 1.887 2.853 3.457 4.153 4.951 5.860 6.890 8.052 9.356 10.814 12.439		CURRENTLY NOT AVAILABLE	0 25 50 75 100 125 150 275 200 225 250 276 300 325 350 325 350 375 400 425 450 525 550 575 600	0.055 0.062 0.076 0.083 0.089 0.096 0.103 0.110 0.116 0.123 0.137 0.137 0.137 0.143 0.157 0.164 0.177 0.177 0.177 0.177 0.177 0.184 0.191 0.204 0.211 0.218