

O-METHYLCYCLOHEXANONE

MCX

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms 2-Methylcyclohexanone	Liquid	Colorless	Weak peppermint odor Floats on water.
Wear full impervious protective clothing and approved respirator. Shut off ignition sources and call fire department. Notify local health and pollution control agencies.			
Fire	Combustible. Wear full protective clothing with self-contained breathing apparatus. Extinguish fire with alcohol foam, dry chemical, or carbon dioxide.		
Exposure	CALL FOR MEDICAL AID. VAPOR Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Remove contaminated clothing and shoes. Wash affected areas with soap and water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, give large quantity of water. After swallowing water, induce vomiting.		
Water Pollution	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge	2.1 CG Compatibility Group: Not listed. 2.2 Formula: <chem>C6H11CO</chem> 2.3 IMO/UN Designation: Currently not available 2.4 DOT ID No.: 2297 2.5 CAS Registry No.: 583-60-8 2.6 NAERG Guide No.: 127 2.7 Standard Industrial Trade Classification: 51628
3. HEALTH HAZARDS	
<p>3.1 Personal Protective Equipment: Impervious clothing and gloves should be used to prevent skin contact. Where splashing is possible wear full face shield or chemical safety goggles. Use approved respirator to protect against vapors.</p> <p>3.2 Symptoms Following Exposure: May cause irritation of the eyes, nose and throat. Prolonged or repeated contact may cause dermatitis.</p> <p>3.3 Treatment of Exposure: Get medical attention. INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. EYES: Flush with water for at least 15 min., lifting lids occasionally. Contact lenses should not be worn when working with this chemical. SKIN: Remove contaminated clothing and shoes. Wash with soap and water. INGESTION: Give the victim large quantity of water. After swallowing the water, induce vomiting.</p> <p>3.4 TLV-TWA: 50 ppm 3.5 TLV-STEL: 75 ppm 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Repeated or prolonged overexposure may cause dermatitis. In animals it has caused drowsiness, skin irritation, tremors, narcosis, and death. 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of skin. 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: 600 ppm 3.14 OSHA PEL-TWA: 100 ppm 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed</p>	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: 118°F C.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Alcohol foam, dry chemical, or carbon dioxide. 4.4 Fire Extinguishing Agents Not to Be Used: Water.	7.1 Grades of Purity: Technical grades. 7.2 Storage Temperature: Ambient. 7.3 Inert Atmosphere: No requirement. 7.4 Venting: Not listed. 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available
4.5 Special Hazards of Combustion Products: Irritating vapors and toxic gases, such as carbon monoxide, may be formed when involved in fire.	8. HAZARD CLASSIFICATIONS
4.6 Behavior in Fire: Currently not available 4.7 Auto Ignition Temperature: Currently not available 4.8 Electrical Hazards: Not listed. 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric Air to Fuel Ratio: 45.2 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 13.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	8.1 49 CFR Category: Flammable liquid 8.2 49 CFR Class: 3 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Health Hazard (Blue)..... - Flammability (Red)..... 2 Instability (Yellow)..... 0
5. CHEMICAL REACTIVITY	8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed 8.9 EPA FWCNA List: Not listed
5.1 Reactivity with Water: No reaction. 5.2 Reactivity with Common Materials: Contact with strong oxidizers may cause fires and explosions. 5.3 Stability During Transport: Stable. 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent. 5.5 Polymerization: Will not polymerize. 5.6 Inhibitor of Polymerization: Not pertinent.	9. PHYSICAL & CHEMICAL PROPERTIES
6. WATER POLLUTION	9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 112.2 9.3 Boiling Point at 1 atm: 329°F = 165°C = 438°K 9.4 Freezing Point: -6.8°F = -14°C = 259°K 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 0.93 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: 3.9 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Not pertinent. 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available

NOTES

O-METHYLCYCLOHEXANONE

MCX

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
CURRENTLY NOT AVAILABLE			CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE

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
INSOLUBLE		68	0.019	68	0.00038		CURRENTLY NOT AVAILABLE