

# CYCLOHEXYL ACETATE

CYC

CAUTIONARY RESPONSE INFORMATION		
Common Synonyms Acetic acid, cyclohexyl ester Cyclohexyl acetate UN 2243 (DOT)	Liquid	Colorless
<p>Keep people away. Avoid inhalation. Call fire department. Avoid contact with liquid. Notify local health and pollution control agencies. Protect water intakes.</p>		
<b>Fire</b>	Combustible. Flashback along vapor trail may occur. Water may be ineffective on fire. Wear self-contained breathing apparatus and protective clothing. Extinguish with dry chemical, alcohol foam, or CO <sub>2</sub> . Cool exposed containers with water.	
<p><b>Exposure</b> CALL FOR MEDICAL AID.  VAPOR May cause irritation. Move to fresh air. If victim is not breathing, give artificial respiration. If breathing is difficult, give oxygen.  LIQUID Irritating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.</p>		
<p><b>Water Pollution</b> Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge Contain Collection Systems: Skim Clean shore line Salvage waterfowl	<p>2.1 CG Compatibility Group: 34; Esters 2.2 Formula: CH<sub>3</sub>CO<sub>2</sub>C<sub>6</sub>H<sub>11</sub> 2.3 IMO/UN Designation: 3.3/2243 2.4 DOT ID No.: 2243 2.5 CAS Registry No.: 622-45-7 2.6 NAERG Guide No.: 130 2.7 Standard Industrial Trade Classification: 51372</p>
<p><b>3. HEALTH HAZARDS</b></p> <p>3.1 Personal Protective Equipment: Self-contained breathing apparatus, rubber boots and heavy rubber gloves. 3.2 Symptoms Following Exposure: May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation. 3.3 Treatment of Exposure: INHALATION: Call for medical aid. Remove the victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. EYES: Flush immediately with copious amounts of water for at least 15 minutes. SKIN: Wash immediately with soap and water with copious amounts of water. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 1; LD<sub>50</sub> = 6.73 g/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 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: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA A EGL: Not listed</p>	

4. FIRE HAZARDS	7. SHIPPING INFORMATION								
4.1 Flash Point: 136°F C.C. 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Carbon dioxide, dry chemical, alcohol foam, or water spray. 4.4 Fire Extinguishing Agents Not to Be Used: Currently not available 4.5 Special Hazards of Combustion Products: Emits toxic fumes under fire conditions. Vapor may travel considerable distance to a source of ignition and flash back.	7.1 Grades of Purity: Currently not available 7.2 Storage Temperature: Ambient. 7.3 Inert Atmosphere: Currently not available 7.4 Venting: Currently not available 7.5 IMO Pollution Category: (B) 7.6 Ship Type: 3 7.7 Barge Hull Type: Currently not available								
8. HAZARD CLASSIFICATIONS									
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:	<table border="0"> <tr> <td>Category</td><td>Classification</td></tr> <tr> <td>Health Hazard (Blue).....</td><td>1</td></tr> <tr> <td>Flammability (Red).....</td><td>2</td></tr> <tr> <td>Instability (Yellow).....</td><td>0</td></tr> </table>	Category	Classification	Health Hazard (Blue).....	1	Flammability (Red).....	2	Instability (Yellow).....	0
Category	Classification								
Health Hazard (Blue).....	1								
Flammability (Red).....	2								
Instability (Yellow).....	0								
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									
9. PHYSICAL & CHEMICAL PROPERTIES									
9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 142.2 9.3 Boiling Point at 1 atm: 350°F = 177°C = 450°K 9.4 Freezing Point: Currently not available 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: 0.966 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: 4.9 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: Currently not available 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available									

NOTES

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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	
C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E

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
I N S O L U B L E		203 221 239 257 275 293 311 329 342	1.047 1.505 2.290 3.282 4.619 6.389 8.698 11.667 14.213		C U R R E N T L Y  N O T  A V A I L A B L E	0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.226 0.240 0.255 0.268 0.282 0.296 0.309 0.322 0.335 0.347 0.360 0.372 0.384 0.395 0.407 0.418 0.429 0.440 0.451 0.461 0.471 0.481 0.491 0.501 0.510