DICYCLOPENTADIENE

| CAUTIONARY RESPONSE INFORMATION | | | | | 4. FIRE HAZARDS | 7. SHIPPING INFORMATION | | |
|---|--|--|---|--|--|---|--|--|
| Common Synonyms Liquid, or solid crystals Arcosolv Dicy a,4,7,7a-Tetrahydro-4,7- Floats on water. F Methanoindene Floats on water. Arcosoly Floats on water. F Shut off ignition sources and call fire departm Shut off ignition sources Floats on water. F | | Liquid, or solid crystals Floats on water. Fr nd call fire departme | Colorless Camphor odor Freezing point is 41°F. | | 4.1 Flash Point: 90°F O.C. 4.2 Flammable Limits in Air: 0.8%-6.3% 4.3 Fire Extinguishing Agents: Foam, carbon dioxide, dry chemical, or water spray. 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.5 Special Hazards of Combustion Products: Not pertinent | 7.1 Grades of Purity: 97% 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: B 7.6 Ship Type: 2 7.7 Barge Hull Type: Currently not available | | |
| Avoid contact with liquid. Stay upwind and use water spray to ``knock down'' vapor. Notify local health and pollution control agencies. Protect water intakes. | | | | 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: 941°F 4.8 Electrical Hazards: Currently not available | 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Flammable Liquid 8.2 49 CFR Class: 3 | | | |
| Fire | Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with water, dry chemical, foam, or carbon dioxide. Cool exposed containers with water. | | | | 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 61.9 (calc.) | 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue) | | |
| Exposure | CALL FOR MEDICAL AID. LIQUID OR SOLID 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. | | | | 1.12 Filame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 16.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed | | | |
| Water Pollution | Water Effect of low concentrations on aqua Fouling to shoreline. May be dangerous it it enters water Notify local health and wildlife officia Notify operators of nearby water inter | | quatic life is unknown. er intakes. cials. intakes. | | CHEMICAL REACTIVITY Reactivity with Water: No reaction Reactivity with Common Materials: No reaction Stability During Transport: Stable | 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid | | |
| 1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Clean shore line Salvage waterfowl | | ACTIONS | CHEMICAL DESIGNATIONS CG Compatibility Group: 30; Olefin Formula: Crehha IMO/UN Designation: 3.3/2048 DOT ID No.: 2048 S CAS Registry No.: 77-73-6 NAERG Guide No.: 129 Standard Industrial Trade Classificatio 51129 | n: | 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: May occur in presence of acids, but not hazardous. 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Watched Toxicity: Currently not | 9.2 Molecular Weight: 132.31 9.3 Boiling Point at 1 atm: 338°F = 170°C = 443°K 9.4 Freezing Point: 41°F = 5°C = 278°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 0.978 at 20°C (liquid) 9.8 Liquid Surface Tension: Currently not available 0.1 liquid Ware teneforties | | |
| HEALTH HAZARDS Personal Protective Equipment: An-suppled mask in confined areas, rubber gloves, safet, 2. Symptoms Following Exposure: Vapor iritiates muccus membranes and respiratory tract, nausea, vontiing, headache, and diziness. Direct contact irritates skin. Treatment of Exposure: NH4LATON: remove vicini from contaminated area and call phy unconscious; if breathing is irregular or stopped, give oxygen and start resuscitation. Ef SKIN: flush with plenty of water for 15 min. TLV-STEL: Not listed. Toxicity by Ingestion: Grade 2: oral rat LDs = 0.82 g/kg Toxicity by Ingestion: Gurenty not available Oranic Toxicity: Currently not available O Vapor (Gas) Irritant Characteristics: Wapors cause a slight smarting of the eyes and respi system if present in high concentrations. The effect is temporary. Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remucause smarting and reddening of the skin. O Oth Threshold: <0.003 ppm. So SHA PEL-VXE: Not listed. So SHA PEL-VXE: Not listed. So SHA PEL-VXE: Not listed. So SHA PEL-SET: Not listed. So SHA PEL-Setting: Not listed. TPA AEGL: Not listed. | | | AZARDS sk in confined areas, rubber gloves, safety glasse: rect contact irritates skin. ctim form contaminated area and call physician if d, give oxygen and start resuscitation. EYES OR 32 g/kg se a slight smarting of the eyes and respiratory affect is temporary. If spilled on clothing and allowed to remain, may | S. | available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed NO | not available 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: -18,800 Btu/b = -10,400 cal/g = -437 X 10 ⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.16 Heat of Polymerization: Not pertinent 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: 0.16 psia TES | | |

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| 9. SATURATED L | 20 IQUID 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 |
| 52 54 56 58 60 62 64 66 68 70 72 74 74 76 88 80 82 84 86 | 61.600 61.530 61.460 61.400 61.330 61.260 61.190 61.120 61.980 60.910 60.840 60.770 60.630 60.630 60.560 60.490 60.420 | 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 | 0.478 | 50 51 52 53 54 55 56 57 59 60 61 62 63 64 66 66 66 66 70 71 72 73 74 75 | 1.040 | 50 51 53 55 56 57 59 61 62 63 64 66 66 66 66 70 71 72 74 75 | 0.878 0.870 0.862 0.854 0.839 0.831 0.824 0.817 0.810 0.802 0.795 0.788 0.775 0.768 0.762 0.755 0.749 0.755 0.749 0.736 0.730 0.724 0.736 0.712 0.712 |

| 9. SOLUBILIT | 24 Y 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 |
| 68 | 0.020 | 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 | 0.036 0.050 0.068 0.092 0.122 0.161 0.272 0.348 0.443 0.558 0.698 0.698 0.698 0.698 0.698 1.071 1.314 1.601 1.940 2.337 2.800 3.337 3.958 4.673 4.673 4.673 5.492 6.425 7.487 8.688 | 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 | 0.00088 0.00119 0.00159 0.00210 0.00274 0.00355 0.00455 0.00578 0.00728 0.00728 0.01128 0.01389 0.02064 0.02492 0.02991 0.03570 0.04237 0.05003 0.05879 0.06875 0.08003 0.09276 0.10710 0.12310 0.14100 | | NOT PERTIZUZT |