

# DECANE

DCC

## CAUTIONARY RESPONSE INFORMATION

<b>Common Synonyms</b> n-Decane	Liquid Colorless None
Floats on water.	
<p><b>AVOID CONTACT WITH LIQUID AND VAPOR.</b>                  Keep people away.                  Wear rubber over clothing (including gloves), goggles, and self-contained breathing apparatus.                  Evacuate area.                  Shut off ignition sources. Call fire department.                  Notify local health and pollution control agencies.                  Protect water intakes.</p>	
<b>Fire</b>	<p>COMBUSTIBLE.                  Wear full protective clothing and approved self-contained breathing apparatus with full facepiece.                  Extinguish with dry chemical, CO<sub>2</sub>, or foam.                  Water fog or spray may be used to cool exposed containers.                  Do not spray water directly on fire; material floats and may reignite.</p>
<b>Exposure</b>	<p>CALL FOR MEDICAL AID.                  Move victim to fresh air.                  Remove contaminated clothing and shoes.                  Wash affected areas with plenty of soap and water.                  IF SWALLOWED, do not induce vomiting.                  If breathing is difficult, give oxygen.</p>
<b>Water Pollution</b>	<p>Effects 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.</p>

### 1. CORRECTIVE RESPONSE ACTIONS

Stop discharge  
 Contain  
 Collection Systems: Skim  
 Chemical and Physical Treatment: Burn;  
 Absorb  
 Salvage waterfowl

### 2. CHEMICAL DESIGNATIONS

2.1 **CG Compatibility Group:** Not listed.  
 2.2 **Formula:** CH<sub>2</sub>(CH<sub>2</sub>)<sub>8</sub>CH<sub>3</sub>  
 2.3 **IMO/UN Designation:** Not listed.  
 2.4 **DOT ID No.:** 2247  
 2.5 **CAS Registry No.:** 124-18-5  
 2.6 **NAERG Guide No.:** 128  
 2.7 **Standard Industrial Trade Classification:**  
 51114

### 3. HEALTH HAZARDS

- 3.1 **Personal Protective Equipment:** Approved self-contained respirator, safety glasses, impervious gloves, and chemical protective clothing.
- 3.2 **Symptoms Following Exposure:** Contact with eyes may produce mild irritation. Contact with skin may cause defatting, redness, scaling, and hair loss. Ingestion may cause diarrhea, slight central nervous system depression, difficulty in breathing and fatigue. Inhalation of high concentrations may cause rapid breathing, fatigue, headache, dizziness, and other CNS effects.
- 3.3 **Treatment of Exposure:** CALL FOR MEDICAL AID EYES: Flush with water at least 15 minutes. SKIN: Wash thoroughly with soap and water. INHALATION: Remove from exposure. If breathing is difficult, give oxygen. INGESTION: Do not induce vomiting.
- 3.4 **TLV-TWA:** Not listed.  
 3.5 **TLV-STEL:** Not listed.  
 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:** Continued skin contact may cause dermatitis and hair loss. Enhances carcinogenicity of known carcinogens and has demonstrated tumor promoting activity when tested dermally in mice.  
 3.10 **Vapor (Gas) Irritant Characteristics:** Vapors cause moderate irritation such that personnel will find high concentrations unpleasant. 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 the 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 AEGL:** Not listed

### 4. FIRE HAZARDS

- 4.1 **Flash Point:** 115°F C.C.  
 4.2 **Flammable Limits in Air:** LEL: 0.82%; UEL: 5.4%.  
 4.3 **Fire Extinguishing Agents:** Dry chemical, carbon dioxide, or foam.  
 4.4 **Fire Extinguishing Agents Not to Be Used:** Do not spray water directly on fire - it will scatter and spread the fire.  
 4.5 **Special Hazards of Combustion Products:** May produce toxic fumes, including carbon monoxide.  
 4.6 **Behavior in Fire:** Currently not available  
 4.7 **Auto Ignition Temperature:** 410°F.  
 4.8 **Electrical Hazards:** Currently not available  
 4.9 **Burning Rate:** Currently not available  
 4.10 **Adiabatic Flame Temperature:** Currently not available  
 4.11 **Stoichiometric Air to Fuel Ratio:** 73.8 (calc.)  
 4.12 **Flame Temperature:** Currently not available  
 4.13 **Combustion Molar Ratio (Reactant to Product):** 21.0 (calc.)  
 4.14 **Minimum Oxygen Concentration for Combustion (MOCC):** Not listed

### 7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** Pure or technical grades.  
 7.2 **Storage Temperature:** Ambient.  
 7.3 **Inert Atmosphere:** No requirement.  
 7.4 **Venting:** Not listed.  
 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:**
- | Category                  | Classification |
|---------------------------|----------------|
| Health Hazard (Blue)..... | 2              |
| Flammability (Red).....   | 2              |
| Instability (Yellow)..... | 3              |
- 8.6 **EPA Reportable Quantity:** Not listed.  
 8.7 **EPA Pollution Category:** Not listed.  
 8.8 **RCRA Waste Number:** Not listed  
 8.9 **EPA FWPCA List:** Not listed

### 5. CHEMICAL REACTIVITY

- 5.1 **Reactivity with Water:** No reaction.  
 5.2 **Reactivity with Common Materials:** No reaction.  
 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

- 9.1 **Physical State at 15° C and 1 atm:** Liquid  
 9.2 **Molecular Weight:** 142.29  
 9.3 **Boiling Point at 1 atm:** 345°F = 174°C = 447°K  
 9.4 **Freezing Point:** -22°F = -30°C = 243°K  
 9.5 **Critical Temperature:** Currently not available  
 9.6 **Critical Pressure:** Currently not available  
 9.7 **Specific Gravity:** 0.73 @ 60°F  
 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:** 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

### 6. WATER POLLUTION

- 6.1 **Aquatic Toxicity:** Currently not available  
 6.2 **Waterfowl Toxicity:** Currently not available  
 6.3 **Biological Oxygen Demand (BOD):** Currently not available  
 6.4 **Food Chain Concentration Potential:** Currently not available  
 6.5 **GESAMP Hazard Profile:**  
 Bioaccumulation: 0  
 Damage to living resources: 0  
 Human Oral hazard: 1  
 Human Contact hazard: 0  
 Reduction of amenities: 0

### 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
60	6.092		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	62 100	0.019 0.101	62 100	0.00049 0.00238		C U R R E N T L Y  N O T  A V A I L A B L E