# VINYL NEODECANOATE

## **CAUTIONARY RESPONSE INFORMATION** Common Synonyms Colorless Pleasant odor Neodecanoic acid, vinyl ester VV 10 vinyl monomer Floats on water Keep people away. Notify local health and pollution control agencies Combustible Fire Containers may explode in fire due to polymerization. Extinguish with dry chemical, carbon dioxide, water spray, fog or foam. Cool exposed containers with water. Prolonged or repeated contact of this material with the skin should be avoided. **Exposure** Effect of low concentrations on aquatic life is unknown. Water May be dangerous if it enter water intakes **Pollution** Notify local health and wildlife officials. Notify operators of nearby water intakes

1. CORRECTIVE RESPONSE ACTIONS
Dilute and disperse

Stop discharge Contain

Contain Collection Systems: Skim

# 2. CHEMICAL DESIGNATIONS

- CG Compatibility Group: 13; Vinyl acetate
- Formula: C12H22O2

- Formula: Ciałta20a IMO/UN Designation: Not listed DOT ID No.: Not listed CAS Registry No.: Currently not available NAERG Guide No.: Not listed Standard Industrial Trade Classification:
- 51379

### 3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Currently not available
- 3.2 Symptoms Following Exposure: Currently not available
- 3.3 Treatment of Exposure: Currently not available
- 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> = 23.1 g/kg (Rat)
- 3.8 Toxicity by Inhalation: Currently not available
  3.9 Chronic Toxicity: Currently not available
- 3.10 Vapor (Gas) Irritant Characteristics: Currently not available
- 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 IDI H 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:** > 175°F. O.C
- 4.2 Flammable Limits in Air: Currently not
- 4.3 Fire Extinguishing Agents: Small fires: dry chemicals, CO<sub>2</sub>, water spray or alcohol foam. Large fires: water spray,
- 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent.
- 4.5 Special Hazards of Combustion Products: Currently not available

fog or alcohol foam.

- 4.6 Behavior in Fire: Currently not available
- 4.7 Auto Ignition Temperature: 588°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 Stoichometric Air to Fuel Ratio: 78.5 (calc.)
- **4.12 Flame Temperature:** Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): 33.0 (calc.)
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

#### 5. CHEMICAL REACTIVITY

- 5.1 Reactivity with Water: No reaction.
- 5.2 Reactivity with Common Materials: The monomer is supplied in bulk or resin lined monomer is supplied in bulk or resin lined drums, and could be safely stored in tin-lined or stainless steel containers. Storage in plastic or other vessels is not recommended. Copper will inhibit polymerization, and zinc with promote discoloration.
- 5.3 Stability During Transport: Stable
- 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
- **5.5 Polymerization:** Commercial application is a modifying monomer in polymerization
- 5.6 Inhibitor of Polymerization: Monomethyl ether of hydroquinone

# 6. WATER POLLUTION

- **6.1 Aquatic Toxicity:**Currently not available
- 6.2 Waterfowl Toxicity: Currently not
- 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: 3 Human Oral hazard: 0 Human Contact hazard: II Reduction of amenities: X

# 7. SHIPPING INFORMATION

- 7.1 Grades of Purity: Not pertinent. The product is a mixture of compounds.
- 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: Not listed
- 8.2. 49 CFR Class: Not pertinent
- 8.3 49 CFR Package Group: Not listed.
- 8.4 Marine Pollutant: No.
- 8.5 NFPA Hazard Classification: Not listed
- 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

#### 9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: 198.3
- 9.3 Boiling Point at 1 atm: Currently not available
- 9.4 Freezing Point: -4°F = -20°C = 253°K
- 9.5 Critical Temperature: Currently not available
- 9.6 Critical Pressure: Currently not available
- 9.7 Specific Gravity: Currently not available
- 9.8 Liquid Surface Tension: Currently not
- 9.9 Liquid Water Interfacial Tension: Currently
- 9.10 Vapor (Gas) Specific Gravity: 11.107
- 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
- 9.12 Latent Heat of Vaporization: 106.2 Btu/lb = 59 cal/g = 2.5 X 10<sup>5</sup> J/kg
- 9.13 Heat of Combustion: Currently not available
- 9.14 Heat of Decomposition: Currently not
- 9.15 Heat of Solution: Currently not available
- **9.16 Heat of Polymerization:** 208.7 Btu/lb = 116 cal/g = 4.86 X 10<sup>5</sup> J/kg
- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not

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
	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
	C URRENTLY NOT AVAILABLE		C UR RENT LY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVA-LABLE