## **1,3-DICHLOROPROPENE**

CAUTIONARY RESPONSE INFORMATION						
Common Synonyms Dichloropropene		Liquid	Colorless	Sweet odor		
TCIONC	Telone		Sinks in water. Flammable, irritating vapor is produced.			
Keep peopl Avoid inhala Wear rubbe Shut off ign Notify local Protect wat	e away. Avoid ation. er overclothing ition sources a health and pol ter intakes.	d contact with liquid (including gloves). and call fire departr llution control agen	l and vapor. nent. cies.			
Fire	FLAMMABLE POISONOUS GASES ARE PRODUCED IN FIRE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS. Extinguish with water, dry chemical, foam, or carbon dioxide. Cool exposed containers with water.					
Exposure	CALL FOR I VAPOR Irritating to e Move to free If breathing i If breathing i LIQUID Will burn ski Harmful if sv Remove cor Flush affectu IF IN EYES, IF SWALLO or milk and F IF SWALLO CONVULSIO	<pre>'OR MEDICAL AID. ' g to eyes, nose and throat. o fresh air. hing has stopped, give artificial respiration. hing is difficult, give oxygen. ' n skin and eyes. li fi swallowed. e contaminated clothing and shoes. ffected areas with plenty of water. ALLOWED and victim is CONSCIOUS, have victim drink water and have victim induce vormiting. ALLOWED and victim is UNCONSCIOUS OR HAVING II SIONS dio nothing areaset</pre>				
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 Stop discharge Collection Systems: Pum Do not burn		E ACTIONS Ip; Dredge	2. CHEMICAL DESIGNATIONS     2.1 CG Compatibility Group: 15; Substituted     allyl     2.2 Formula: CICH-CH = CHCI     2.3 IMOVIN Designation: 3.3/2047     2.4 DOT ID No.: 2047     2.5 CAS Registry No.: 542-75-6     2.6 NAERG Guide No.: 132     2.7 Standard Industrial Trade Classificatior     51138			

## 3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: An approved full face mask equipped with a fresh black canister meeting specifications of the U.S. Bureau of Mines for organic vapors, a full face self-contained breathing apparatus, or full face air-supplied respirator.
- 3.2 Symptoms Following Exposure: Smarting of skin and eyes. Prolonged contact of liquid with skin may cause second-degree burns.
- cause second-oegree burns.
  3.3 Treatment of Exposure: INHALATION: remove patient to fresh air, keep warm and quiet; call physician immediately; give artificial respiration if breathing has stopped. INGESTION: call physician immediately. Induce vomiting by giving an emetic, e.g., 2 tablespoons table salt in glass of warm water. CONTACT WITH SKIN OR EYES: immediately remove contaminated clothing and shoes. Wash skin with soap and plenty of water. For eyes, flush immediately with plenty of water for at least 15 min. Call physician.
- 3.4 TLV-TWA: 1 ppm 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 3; LD50 = 50 to 500 mg/kg
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: Currently not available
  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: Causes smatting of the skin and first-degree burns on short exposure and may cause secondary burns on long exposure.
- 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	7. SHIPPING INFORMATION				
4.1 Flash Point: 95°F C.C.	7.1 Grades of Purity: Telone soil fumigant: 100%;				
4.2 Flammable Limits in Air: Currently not	Telone C soil fungicide: 85%, chloropicrin 15				
4.3 Fire Extinguishing Agents: Water, dry	7.3 Inert Atmosphere: No requirement				
chemical, foam, carbon dioxide	7.4 Venting: Pressure-vacuum				
Used: Not pertinent	7.5 IMO Pollution Category: B				
4.5 Special Hazards of Combustion	7.6 Ship Type: 2				
Products: Toxic and irritating gases may be generated	7.7 Barge Hull Type: 2				
4.6 Behavior in Fire: Not pertinent	8. HAZARD CLASSIFICATIONS				
4.7 Auto Ignition Temperature: Currently not available	8.1 49 CFR Category: Flammable liquid				
4.8 Electrical Hazards: Currently not	8.2 49 CFR Class: 3				
available	8.3 49 CFR Package Group: II				
4.10 Adiabatic Flame Temperature: Currently	6.4 marine Poliutant: NO 8.5 NEPA Hazard Classification				
not available	Category Classification				
4.11 Stoichometric Air to Fuel Ratio: 16.7 (calc.)	Health Hazard (Blue) 2				
4.12 Flame Temperature: Currently not	Flammability (Red)				
available 4.13 Compussion Molar Patio (Peactant to	8.6 EPA Papartable Quantity: 100 pounds				
Product): 6.0 (calc.)	8.7 EPA Pollution Category: B				
4.14 Minimum Oxygen Concentration for Compustion (MOCC): Not listed	8.8 RCRA Waste Number: U084				
	8.9 EPA FWPCA List: Not listed				
5. CHEMICAL REACTIVITY					
5.1 Reactivity with Water: No reaction	PROPERTIES				
5.2 Reactivity with Common Materials: No reaction	9.1 Physical State at 15° C and 1 atm: Liquid				
5.3 Stability During Transport: Stable	9.2 Molecular Weight: 110.98				
5.4 Neutralizing Agents for Acids and	9.3 Boiling Point at 1 atm: 170°F = 77°C =				
5.5 Polymerization: Not pertinent	350°K				
5.6 Inhibitor of Polymerization: Not pertinent	9.5 Critical Temperature: Not pertinent				
	9.6 Critical Pressure: Not pertinent				
6. WATER POLLUTION	9.7 Specific Gravity: 1.2 at 20°C (liquid)				
6.1 Aquatic Toxicity: 100 ppm/*/daphnia/toxic/fresh water	9.8 Liquid Surface Tension: 31.2 dynes/cm = 0.0312 N/m at 24°C				
*Time period not specified.	9.9 Liquid Water Interfacial Tension: 23.8				
6.2 Waterfowl Toxicity: Currently not available	dynes/cm = 0.0238 N/m at 24°C				
6.3 Biological Oxygen Demand (BOD):	9.10 Vapor (Gas) Specific Gravity: Not pertinent				
Currently not available	(est.) 1.116				
None	<b>9.12 Latent Heat of Vaporization:</b> (est.) 113 Btu/lb = 62.8 cal/g = 2.63 X 10 <sup>5</sup> J/kg				
6.5 GESAMP Hazard Profile: Bioaccumulation: 0	<b>9.13 Heat of Combustion:</b> (est.) 6900 Btu/lb =				
Damage to living resources: 3 Human Oral hazard: 2	9.14 Heat of Decomposition: Not pertinent				
Human Contact hazard: II	9.15 Heat of Solution: Not pertinent				
Reduction of amenities. A	9.16 Heat of Polymerization: Not pertinent				
	9.17 Heat of Fusion: Currently not available				
	9.19 Reid Vapor Pressure: 4.0 psia				
NOTES	S				

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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
34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	76.089 76.020 75.950 75.879 75.809 75.740 75.669 75.530 75.530 75.320 75.320 75.250 75.320 75.250 75.179 75.120 75.179 75.120 75.049 74.990 74.910 74.910 74.839 74.419 74.559 74.459 74.419 74.349	32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66	0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478		CURRENTLY NOT AVAILABLE	46 48 50 52 54 56 58 60 62 64 64 66 68 70 72 74 74 76 78 80 82 84 86 89 99 92 99	0.938 0.924 0.911 0.898 0.885 0.872 0.860 0.848 0.836 0.824 0.813 0.802 0.791 0.770 0.770 0.770 0.750 0.750 0.740 0.721 0.712 0.712 0.712 0.703 0.684 0.685 0.668

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
	CJRRENTLY NOT AVA-LABLE	35 40 45 50 55 60 65 70 75 80 85 90 95 90 95 100 105 110 115 120	0.834 0.953 1.087 1.236 1.401 1.586 1.790 2.016 2.265 2.540 2.842 3.174 3.537 3.934 4.368 4.840 5.354 5.912	35 40 45 50 55 60 65 70 75 80 85 90 95 90 95 100 105 110 115 120	0.01743 0.01972 0.02226 0.02507 0.02815 0.03155 0.03935 0.04380 0.04380 0.04380 0.04386 0.05395 0.05969 0.06593 0.07267 0.07997 0.08784 0.09632 0.10540	30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260	0.163 0.165 0.170 0.177 0.174 0.178 0.180 0.183 0.185 0.187 0.189 0.191 0.193 0.195 0.197 0.201 0.205 0.205 0.205 0.210