## METHYL DICHLOROACETATE

7. SHIPPING INFORMATION

7.2 Storage Temperature: Currently not available 7.3 Inert Atmosphere: Currently not available

7.1 Grades of Purity: 99+%

8.2 49 CFR Class: 6.1 8.3 49 CFR Package Group: III

8.4 Marine Pollutant: No

8.5 NFPA Hazard Classification:

Flammability (Red).....

Instability (Yellow).....

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

9.2 Molecular Weight: 142.97 **9.3 Boiling Point at 1 atm:** 289°F = 143°C = 416°K

7.4 Venting: Currently not available 7.5 IMO Pollution Category: Currently not available

7.6 Ship Type: Currently not available

7.7 Barge Hull Type: Currently not available 8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Keep Away From Food

Category Classification Health Hazard (Blue)......

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Liquid

9.4 Freezing Point: -62°F = -52°C = 221°K

9.6 Critical Pressure: Currently not available

9.8 Liquid Surface Tension: Currently not 9.9 Liquid Water Interfacial Tension: Currently not available

9.10 Vapor (Gas) Specific Gravity: 4.93 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

9.7 Specific Gravity: 1.3774 at 20°C

9.5 Critical Temperature: Currently not available

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(		ARY RESPO	NSE INFORM	ATION	4. FIRE H
Common Syno Dichloroacetic acid, r		Liquid	Colorless	Ethereal odor	4.1 Flash Point: 176°F 4.2 Flammable Limits available
ester Methyl dichloroethand	oate	Sinks in water.			4.3 Fire Extinguishing chemical powder,
			TH LIQUID AND VAPOR full protective clothing.	L	4.4 Fire Extinguishing Used: Currently n
Call fire dep	partment.	llution control agencie			4.5 Special Hazards of Products: Produc phosgene and HC
Fire	Combustible	emitted when heated	4		4.6 Behavior in Fire: 0 4.7 Auto Ignition Tem
	Wear self-c	ontained breathing ap vith CO <sub>2</sub> , dry chemica	available 4.8 Electrical Hazards		
Exposure	CALL FOR	MEDICAL AID.			available 4.9 Burning Rate: Cur
-	VAPOR Harmful if in	haled or absorbed thr	rough the skin		4.10 Adiabatic Flame not available
	Highly irritat	ing to skin, eyes, and pon contact with moi	4.11 Stoichometric Air (calc.)		
	Remove vic If breathing	tim to fresh air. has stopped, give art	4.12 Flame Temperatu available		
		is difficult, give oxyge	4.13 Combustion Mola Product): 6.0 (ca		
	Corrosive to	vallowed or absorbed eyes, skin, nose, th upon contact with mo	4.14 Minimum Oxygen Combustion (MC		
			lush with plenty of water		5. CHEMICAL
	Remove contaminated clothing and shoes; flush affected areas with water. IF SWALLOWED: do nothing except keep victim warm. DO NOT INDUCE VOMITING.				5.1 Reactivity with Wa corrosive product 5.2 Reactivity with Co
Water Pollution	Effects of low concentrations on aquatic life are not known. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				reaction. 5.3 Stability During Tr 5.4 Neutralizing Agen Caustics: Not per
					5.5 Polymerization: No 5.6 Inhibitor of Polyme
1. CORRECTIVE RESPONSE ACTIONS Stop discharge			2.1 CG Compatibil 2.2 Formula: ClaCH 2.3 IMO/UN Design 2.4 DOT ID No.: 22 2.5 CAS Registry N 2.6 NAERG Guide	IĆO₂CH₃ hation: 6.1/2299 99 Io.: 116-54-1	<ol> <li>WATER F</li> <li>1 Aquatic Toxicity: Currently not availe</li> <li>2 Waterfowl Toxicity available</li> <li>3 Biological Oxygen Currently not avail</li> <li>4 Food Chain Conce</li> </ol>
		3. HEALTH H	AZARDS		Currently not avai 6.5 GESAMP Hazard P
safety face 3.2 Symptoms Foll respiratory bronchi, ch sensation, 4 3.3 Treatment of E minutes. S Move victin	shield (8 inch owing Expos tract. May be emical pneumo coughing, whe xposure: Cal KIN: Remove n to fresh air. n. INGESTION	minimum), other prote ure: Extremely destr fatal as a result of s pnitis, and pulmonary ezing, laryngitis, shor I a physician. EYES: contaminated clothin If breathing has stop	ective clothing. uctive to the eyes, nose pasm, inflammation and edema. Symptoms of ex- tness of breath, headac Hold eyelids open, flus g, flush affected areas v ged, give artificial respir.	edema of the larynx and	Bioaccumulation: Damage to living Human Oral haza Human Contact h Reduction of ame
3.5 TLV-STEL: Not 3.6 TLV-Ceiling: Not	listed.				
3.6 TLV-Celling: No 3.7 Toxicity by Ing		ntly not available			

3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available.

3.9 Chronic Toxicity: Currently not available

3.10 Vapor (Gas) Irritant Characteristics: Vapors cause severe irritation of eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.
 3.11 Liquid or Solid Characteristics: Severe skin irritant. Causes second and third degree burns on short contact and is very injurious to the eyes.

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

## HAZARDS

4.1	Flash Point: 176°F C.C.
4.2	Flammable Limits in Air: Currently not
	available

- ng Agents: CO<sub>2</sub>, dry r, or foam.
- g Agents Not to Be not available
- of Combustion uces toxic fumes of
- Currently not available nperature: Currently not
- s: Currently not
- rrently not available Temperature: Currently
- r to Fuel Ratio: 11.9
- ure: Currently not
- ar Ratio (Reactant to alc.)
- n Concentration for OCC): Not listed

## L REACTIVITY

- ater: Hydrolyzes to form
- ommon Materials: No
- ransport: Stable ts for Acids and
- ertinent lot pertinent
- erization. Not pertinent

POLLUTION

- lable
- ty: Currently not
- n Demand (BOD): ilable
- entration Potential:
- Profile: : 0 | resources: (2)
  - ard: (1) hazard: I enities: X
- 9.16 Heat of Polymerization: Not pertinent
  - 9.17 Heat of Fusion: Currently not available
  - 9.18 Limiting Value: Currently not available

9.14 Heat of Decomposition: Currently not available

9.15 Heat of Solution: Currently not available

9.19 Reid Vapor Pressure: Currently not available

NOTES

## METHYL DICHLOROACETATE

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
68	85.990		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
	C J R R E N T L Y NOT A V A - 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 NOT A V A - L A B L E	0 25 50 75 100 125 150 175 200 225 250 250 325 350 325 350 375 400 425 450 475 550 525 550 575 600	0.153 0.158 0.163 0.163 0.173 0.178 0.183 0.183 0.192 0.197 0.201 0.205 0.210 0.214 0.214 0.214 0.222 0.226 0.230 0.233 0.237 0.241 0.241 0.241 0.241 0.251