

# ISOOCTYL ESTER

TPE

CAUTIONARY RESPONSE INFORMATION			4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Silvex, isooctyl ester 2,4,5-TP acid esters	Oily liquid Sinks in water.	Amber to dark brown	<p>4.1 Flash Point: 405°F O.C.</p> <p>4.2 Flammable Limits in Air: Currently not available</p> <p>4.3 Fire Extinguishing Agents: Water fog, foam, CO<sub>2</sub> or dry chemical</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Currently not available</p> <p>4.5 Special Hazards of Combustion Products: Emits noxious fumes, including chloride.</p> <p>4.6 Behavior in Fire: May liberate hydrogen chloride.</p> <p>4.7 Auto Ignition Temperature: Currently not available</p> <p>4.8 Electrical Hazards: Currently not available</p> <p>4.9 Burning Rate: Currently not available</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: 97.6 (calc.)</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): 30.0 (calc.)</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: 95 to 97%.</p> <p>7.2 Storage Temperature: Ambient</p> <p>7.3 Inert Atmosphere: Currently not available</p> <p>7.4 Venting: Currently not available</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>
Fire	COMBUSTIBLE. Poisonous gases may be produced in fire. Wear goggles, self-contained breathing apparatus and rubber overclothing (including gloves).			8. HAZARD CLASSIFICATIONS
Exposure	CALL FOR MEDICAL AID.  LIQUID Harmful if swallowed. 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. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk, and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep warm.			<p>8.1 49 CFR Category: Not listed</p> <p>8.2 49 CFR Class: Not pertinent</p> <p>8.3 49 CFR Package Group: Not listed</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification: Not listed</p> <p>8.6 EPA Reportable Quantity: Not listed</p> <p>8.7 EPA Pollution Category: Not listed</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWPCA List: Not listed</p>
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.			9. PHYSICAL & CHEMICAL PROPERTIES
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Pump; Dredge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: C <sub>8</sub> H <sub>16</sub> Cl <sub>3</sub> O <sub>3</sub> 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51377			<p>9.1 Physical State at 15°C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: 381.7259 (calculated).</p> <p>9.3 Boiling Point at 1 atm: 320°F = 160°C = 433.2°K</p> <p>9.4 Freezing Point: Currently not available</p> <p>9.5 Critical Temperature: Currently not available</p> <p>9.6 Critical Pressure: Currently not available</p> <p>9.7 Specific Gravity: 1.183 at 20°C.</p> <p>9.8 Liquid Surface Tension: Currently not available</p> <p>9.9 Liquid Water Interfacial Tension: Currently not available</p> <p>9.10 Vapor (Gas) Specific Gravity: Currently not available</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</p> <p>9.12 Latent Heat of Vaporization: Currently not available</p> <p>9.13 Heat of Combustion: Currently not available</p> <p>9.14 Heat of Decomposition: Currently not available</p> <p>9.15 Heat of Solution: Currently not available</p> <p>9.16 Heat of Polymerization: Not pertinent</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: Currently not available</p>
3.1 Personal Protective Equipment: Rubber gloves and boots, safety goggles or face mask, protective clothing and a NIOSH approved respirator.	3. HEALTH HAZARDS			NOTES
3.2 Symptoms Following Exposure: INHALATION: Vapors or mists may be irritating to nose and throat. EYES: Mild irritation. SKIN: Irritation-slight to moderate. INGESTION: Weakness, lethargy, anorexia, diarrhea, spasticity, possible death due to ventricular fibrillation and subsequent cardiac arrest.				
3.3 Treatment of Exposure: Call a physician. INHALATION: Remove victim to fresh air, if needed administer artificial respiration. EYES: Flush with plenty of water for at least 15 minutes. SKIN: Wash with soap and water. Remove contaminated clothing and shoes. INGESTION: Induce vomiting and administer gastric lavage.				
3.4 TLV-TWA: Not listed.				
3.5 TLV-STEL: Not listed.				
3.6 TLV-Ceiling: Not listed.				
3.7 Toxicity by Ingestion: Grade 2; LD <sub>50</sub> = 0.5 to 5 g/kg.				
3.8 Toxicity by Inhalation: Currently not available.				
3.9 Chronic Toxicity: Possible teratogen. The contaminant Dioxin is, at least partially the cause of the defects.				
3.10 Vapor (Gas) Irritant Characteristics: Not pertinent				
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 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 A EGL: Not listed				

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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
CURRENTLY NOT AVAILABLE			NOT PERTINENT		NOT PERTINENT		CURRENTLY NOT AVAILABLE