

CHLOROACETOPHENONE

CRA

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms alpha-Chloroacetophenone omega-Chloroacetophenone Chromethyl phenyl ketone Phenacyl chloride Phenyl chloromethylketone Tear gas	Solid	White to light yellow	Sharp odor
Evacuate. KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Avoid inhalation. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Call fire department. Stay upwind. Use water spray to "knock down" dust. Notify local health and pollution control agencies. Protect water intakes.			
Fire			Combustible. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles, self-contained breathing apparatus and rubber overclothing (including gloves). Flood discharge area with water.
Exposure			CALL FOR MEDICAL AID DUST POISONOUS IF INHALED OR IF SKIN IS EXPOSED. Irritating to eyes, nose and throat. Move victim to fresh air. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID POISONOUS 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 victim warm.
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 ACTIONS	2. CHEMICAL DESIGNATIONS
Dilute and disperse Stop discharge Contain Collection Systems: Skim; Dredge	2.1 CG Compatibility Group: Not listed. 2.2 Formula: <chem>C6H5COCH2Cl</chem> 2.3 IMO/UN Designation: 6.1/1697 2.4 DOT ID No.: 1697 2.5 CAS Registry No.: 532-27-4 2.6 NAERG Guide No.: 153 2.7 Standard Industrial Trade Classification: 51629
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Full-face organic canister mask; self-contained breathing apparatus; rubber gloves; protective clothing.	
3.2 Symptoms Following Exposure: Inhalation causes tearing, burning of the eyes and difficulty in breathing; high concentrations may lead to development of acute pulmonary edema after latencies of 8 hrs. to several days; possible systemic manifestations include agitation, coma, contraction of pupils of eyes, loss of reflexes. External contact causes irritation of skin and intense irritation of eyes. Ingestion causes agitation, coma, contraction of pupils of eye, loss of reflexes.	
3.3 Treatment of Exposure: INHALATION: remove victim from contaminated atmosphere at once; give artificial respiration and oxygen, if necessary; watch for pulmonary edema for several days. EYES: flush with water; do not rub. SKIN: flush with water. INGESTION: get medical attention; watch for development of pulmonary edema for several days.	
3.4 TLV-TWA: 0.05 ppm 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 3; oral LD ₅₀ = 52 mg/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Fatty infiltration of liver 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: 0.016 ppm 3.13IDLH Value: 15 mg/m ³ 3.14 OSHA PEL-TWA: 0.05 ppm 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: Combustible solid 244°F.C. (solutions only)	7.1 Grades of Purity: Sometimes shipped as a solution in an organic solvent.
4.2 Flammable Limits in Air: Not pertinent	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Water	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Pressure-vacuum
4.5 Special Hazards of Combustion Products: Irritating hydrogen chloride may form.	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Unburned material may become volatile and cause severe eye irritation.	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Currently not available	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Currently not available	
4.9 Burning Rate: Not pertinent	
4.10 Adiabatic Flame Temperature: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: 42.8 (calc.)	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): 12.0 (calc.)	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
8. HAZARD CLASSIFICATIONS	9. PHYSICAL & CHEMICAL PROPERTIES
8.1 49 CFR Category: Poison	9.1 Physical State at 15° C and 1 atm: Solid
8.2 49 CFR Class: 6.1	9.2 Molecular Weight: 154.6
8.3 49 CFR Package Group: II	9.3 Boiling Point at 1 atm: 477°F = 247°C = 520°K
8.4 Marine Pollutant: No	9.4 Freezing Point: 68-138°F = 20-59°C = 293-332°K
8.5 NFPA Hazard Classification:	9.5 Critical Temperature: Not pertinent
Category Classification	9.6 Critical Pressure: Not pertinent
Health Hazard (Blue)..... 2	9.7 Specific Gravity: 1.32 at 15°C (solid)
Flammability (Red)..... 1	9.8 Liquid Surface Tension: Not pertinent
Instability (Yellow)..... 0	9.9 Liquid Water Interfacial Tension: Not pertinent
8.6 EPA Reportable Quantity: Not listed.	9.10 Vapor (Gas) Specific Gravity: Not pertinent
8.7 EPA Pollution Category: Not listed.	9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
8.8 RCRA Waste Number: Not listed	9.12 Latent Heat of Vaporization: Not pertinent
8.9 EPA FWPCA List: Not listed	9.13 Heat of Combustion: (est.) -9,340 Btu/lb = -5,190 cal/g = -217 X 10 ³ J/kg
	9.14 Heat of Decomposition: Not pertinent
	9.15 Heat of Solution: Not pertinent
	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

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
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

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
INSOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT