ANISOYL CHLORIDE

ASC

CAUTIONARY RESPONSE INFORMATION

Common Synonyms			
p-Anisoyl chloride	Liquid	Yellow to brown	Sharp, penetrating odor

Reacts with water. Irritating vapor is produced. Freezing point is 72°F.

Wear goggles and self-contained breathing apparatus.
Stop discharge if possible. Keep people away.
Avoid inhalation.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
POISONOUS GASES MAY BE PRODUCED WHEN HEATED.
Extinguish with dry chemicals or carbon dioxide.
DO NOT USE WATER ON ADJACENT FIRES.

Exposure

Call for medical aid.

VAPOR
Irritating to eyes, nose and throat.
Move victim to fresh air.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
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.

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

Dilute and disperse
Stop discharge
Collection Systems: Pump

2. CHEMICAL DESIGNATIONS

2.1 CG Compatibility Group: Not listed
2.2 Formula: p-$CH_3OC_6H_4COCl$
2.3 IMO/UN Designation: 8/1729
2.4 DOT ID No.: 1729
2.5 CAS Registry No.: Currently not available
2.6 NAERG Guide No.: 156
2.7 Standard Industrial Trade Classification: 51244

3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Goggles and face shield; plastic gloves; protective clothing.
3.2 Symptoms Following Exposure: Vapor irritates mucous membranes. Contact of liquid with eyes or skin causes severe irritation. Ingestion causes severe irritation of mouth and stomach.
3.3 Treatment of Exposure: INHALATION: remove to fresh air. EYES: flush with water for at least 15 min.; get medical attention. SKIN: flush with water; wash well with soap and water. INGESTION: do NOT induce vomiting; give large amounts of water.
3.4 TLV-TWA: Not listed.
3.5 TLV-STEL: Not listed.
3.6 TLV-Ceiling: Not listed.
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: Currently not available
3.11 Liquid or Solid Characteristics: Currently not available
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

4.1 Flash Point: Currently not available
4.2 Flammable Limits in Air: Not pertinent
4.3 Fire Extinguishing Agents: Carbon dioxide, dry chemical
4.4 Fire Extinguishing Agents Not to Be Used: Water, foam
4.5 Special Hazards of Combustion Products: Irritating hydrogen chloride fumes may be formed.
4.6 Behavior in Fire: Not pertinent
4.7 Auto Ignition Temperature: Currently not available
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: Currently not available
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): Currently not available
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

5.1 Reactivity with Water: Reacts slowly to generate hydrogen chloride (hydrochloric acid). The reaction is not hazardous.
5.2 Reactivity with Common Materials: Corrodes metal slowly
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Flush with water, rinse with sodium bicarbonate or lime solution.
5.5 Polymerization: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

6.1 Aquatic Toxicity: Currently not available
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile:
Bioaccumulation: 0
Damage to living resources: (1)
Human Oral hazard: (1)
Human Contact hazard: 0
Reduction of amenities: XX

7. SHIPPING INFORMATION

7.1 Grades of Purity: Commercial
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Pressure-vacuum
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: Corrosive material
8.2 49 CFR Class: 8
8.3 49 CFR Package Group: II
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: 171.6
9.3 Boiling Point at 1 atm: 504°F = 262°C = 535°K
9.4 Freezing Point: 72°F = 22°C = 295°K
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 1.26 at 20°C (liquid)
9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 20°C
9.9 Liquid Water Interfacial Tension: Not pertinent
9.10 Vapor (Gas) Specific Gravity: Not pertinent
9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
9.12 Latent Heat of Vaporization: Not pertinent
9.13 Heat of Combustion: (est.) -10,500 Btu/lb = -5,830 cal/g = -244 X 10^5 J/kg
9.14 Heat of Decomposition: Not pertinent
9.15 Heat of Solution: (est.) 90 Btu/lb = 50 cal/g = 2.1 X 10^5 J/kg
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
72	78.509	72	0.400		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
	REACTS	395	3.302	395	0.06177		NOT PERTINENT
		400	3.567	400	0.06633		
		405	3.849	405	0.07116		
		410	4.150	410	0.07629		
		415	4.471	415	0.08171		
		420	4.812	420	0.08745		
		425	5.175	425	0.09352		
		430	5.561	430	0.09993		
		435	5.971	435	0.10670		
		440	6.406	440	0.11380		
		445	6.868	445	0.12140		
		450	7.357	450	0.12930		
		455	7.875	455	0.13760		
		460	8.423	460	0.14640		
		465	9.003	465	0.15560		
		470	9.615	470	0.16530		
		475	10.260	475	0.17550		
		480	10.950	480	0.18620		
		485	11.670	485	0.19740		
		490	12.430	490	0.20920		
		495	13.230	495	0.22150		
		500	14.070	500	0.23440		