4-Chlorophenylamine
1-Amino-4-chlorobenzene

3.10 Vapor (Gas) Irritant Characteristics:
3.14 OSHA PEL-TWA:
3.13 IDLH Value:
3.12 Odor Threshold:
3.8 Chronic Toxicity:
3.7 Toxicity by Inhalation:
3.6 TLV-Ceiling:
3.5 TLV-STEL:
3.4 Flash Point:
3.3 Treatment of Exposure:
3.2 Symptoms Following Exposure:
3.1 Personal Protective Equipment:

1. CORRECTIVE RESPONSE ACTIONS
Stop discharge
Collection Systems: Skim; Dredge
Notify local health and wildlife officials.
Notify local health and pollution control agencies.
Notify local health and wildlife officials.
Notify local health and pollution control agencies.

2. CHEMICAL DESIGNATIONS
2.1 CG Compatibility Group: Not listed.
2.2 Formula: C6H4ClNH2
2.3 IMO/UN Designation: 6.1/2018
2.4 DOT ID No.: 106-47-8
2.5 CAS Registry No.: 106-47-8
2.6 NAERG Guide No.: 152
2.7 Standard Industrial Trade Classification: 51453

3. HEALTH HAZARDS
3.1 Personal Protective Equipment: Rubber gloves; chemical goggles; protective clothing; dust respirator.
3.2 Symptoms Following Exposure: Irritation of the eyes, skin, and mucous membranes. Inhalation of concentrations of P-chloroaniline may cause respiratory irritation.
3.3 Treatment of Exposure: Remove victim from exposure immediately; if needed, administer oxygen; refer to physician. EYES: Flush with water for at least 15 min. SKIN: remove victim from exposure immediately; remove contaminated clothing; wash contact area with copious amounts of water and soap; if needed, administer oxygen; refer to physician. INGESTION: induce vomiting; get medical attention.

4. FIRE HAZARDS
4.1 Flash Point: (Combustible solid) = 220°F O.C.
4.2 Flammability Limits in Air: Not pertinent
4.3 Fire Extinguishing Agents: Water, dry chemical, foam or carbon dioxide
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent
4.5 Special Hazards of Combustion Products: Initiating and toxic hydrogen chloride and oxides of nitrogen may form in fires.
4.6 Behavior in Fire: Currently not available
4.7 Auto Ignition Temperature: Currently not available
4.8 Electrical Hazards: Not pertinent
4.9 Burning Rate: Not pertinent
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichiometric Air to Fuel Ratio: 39.3 (calc.)
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 10.5 (calc.)
4.14 Minimum Oxygen Concentration for Combustion (MOC): Not listed

5. CHEMICAL REACTIVITY
5.1 Reactivity with Water: Not pertinent
5.2 Reactivity with Common Materials: No reaction
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
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: Currently not available
6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION
7.1 Grades of Purity: 99.0%, Technical
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open (flame arrestor). Store containers in a well-ventilated area.
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 40 CFR Category: Poison
8.2 49 CFR Class: 6.1
8.3 49 CFR Package Group: II
8.4 Marine Pollutant: No
8.5 NPFHA Hazard Classification: Not listed
8.6 EPA Reportable Quantity: 1000 pounds
8.7 EPA Pollution Category: C
8.8 RCRA Waste Number: P024
8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES
9.1 Physical State at 15° C and 1 atm: Solid
9.2 Molecular Weight: 127.6
9.3 Boiling Point at 1 atm: 446°F = 230°C = 503 K
9.4 Freezing Point: 158°F = 70°C = 343 K
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 1.43 at 19°C (solid)
9.8 Liquid Surface Tension: Not pertinent
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: (solid) = –11,000 Btu/lb = –46,000 cal/g = –250 X 10^6 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

JUNE 1999
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<th>Pounds per cubic foot</th>
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**SATURATED LIQUID DENSITY**

**LIQUID HEAT CAPACITY**

**LIQUID THERMAL CONDUCTIVITY**

**LIQUID VISCOSITY**

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**SOLUBILITY IN WATER**

**SATURATED VAPOR PRESSURE**

**SATURATED VAPOR DENSITY**

**IDEAL GAS HEAT CAPACITY**

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**JUNE 1999**