

MSDS # 64.00

# Aniline

**Section 1: Product and Company Identification****Aniline****Synonyms/General Names:** Dichloromethane**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.**24 Hour Emergency Information Telephone Numbers****CHEMTREC (USA): 800-424-9300****CANUTEC (Canada): 613-424-6666**

ScholarAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

**Section 2: Hazards Identification***Colorless, oily liquid, amine odor.***HMIS (0 to 4)**

<b>Health</b>	<b>3</b>
<b>Fire Hazard</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>

**WARNING!** Highly toxic by ingestion, flammable liquid and known carcinogen

Target organs: Central nervous system, liver, kidneys, blood.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Section 3: Composition / Information on Ingredients**

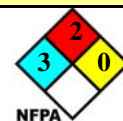
Aniline (62-53-3), &gt;99%

**Section 4: First Aid Measures***Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink. Induce vomiting immediately.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.**Section 5: Fire Fighting Measures**

Combustible liquid. When heated to decomposition, emits acrid fumes. Volatile with steam.

**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.

**Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Sweep up spill and place in sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

**Section 7: Handling and Storage****Blue****Handling:** Use with mechanical ventilation only and do not breathe vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Respiratory use is forbidden, ineffective protection.**Storage:** Store in Toxic Storage Area [Blue Storage] with other toxic material. Store in a dedicated poison cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.**Section 8: Exposure Controls / Personal Protection**Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an acid/organic cartridge. Exposure guidelines: Aniline: OSHA PEL: 19 mg/m<sup>3</sup>; ACGIH: TLV: 7.6 mg/m<sup>3</sup>, STEL: N/A.

**Section 9: Physical and Chemical Properties**

<b>Molecular formula</b>	C <sub>6</sub> H <sub>7</sub> N.	<b>Appearance</b>	Colorless, oily liquid.
<b>Molecular weight</b>	93.13.	<b>Odor</b>	Amine odor.
<b>Specific Gravity</b>	1.02 g/mL @ 20°C.	<b>Odor Threshold</b>	N/A.
<b>Vapor Density (air=1)</b>	3.2.	<b>Solubility</b>	Soluble in water.
<b>Melting Point</b>	-6°C.	<b>Evaporation rate</b>	N/A. ( <i>Butyl acetate = 1</i> ).
<b>Boiling Point/Range</b>	184 °C.	<b>Partition Coefficient</b>	N/A. ( <i>log P<sub>ow</sub></i> ).
<b>Vapor Pressure (20°C)</b>	1 mmHg.	<b>pH</b>	N/A.
<b>Flash Point:</b>	76°C (169°F).	<b>LEL</b>	1.3%.
<b>Autoignition Temp.:</b>	615°C (1139°F).	<b>UEL</b>	11%.

N/A = Not available or applicable

**Section 10: Stability and Reactivity**

Avoid heat and ignition sources.

**Stability:** Stable under normal conditions of use and storage.**Incompatibility:** Alkalis, acids, strong oxidizers, albumin, solutions of iron, zinc, aluminum**Shelf life:** Indefinite if stored properly.**Section 11: Toxicology Information****Acute Symptoms/Signs of exposure:** *Eyes:* Redness, tearing, itching, burning, conjunctivitis. *Skin:* Redness, itching.*Ingestion:* Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. *Inhalation:* Irritation of mucous membranes, coughing, wheezing, shortness of breath,**Chronic Effects:** Possible carcinogen, IARC group 3; NTP Not listed; ACGIH A3.**Sensitization:** none expected*Aniline: LD50 [oral, rat]; 250 mg/kg; LC50 [rat]; 250 mg/m<sup>3</sup>/4 hrs; LD50 Dermal [rabbit]; 500mg/mild**Material has been found to possibly be a carcinogen or produce genetic, reproductive, or developmental effects.***Section 12: Ecological Information****Ecotoxicity (aquatic and terrestrial):** Ecological impact has not been determined.**Section 13: Disposal Considerations**

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

**Section 14: Transport Information**

<b>DOT Shipping Name:</b>	Aniline.	<b>Canada TDG:</b>	Aniline.
<b>DOT Hazard Class:</b>	6.1, pg II.	<b>Hazard Class:</b>	6.1, pg II.
<b>Identification Number:</b>	UN1547.	<b>UN Number:</b>	UN1547.

**Section 15: Regulatory Information****EINECS:** Listed (200-539-3) .**WHMIS Canada:** B3, D1A, D2B: Combustible, Very Toxic material.**TSCA:** All components are listed or are exempt.**California Proposition 65:** Listed – Cancer.

*The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**Section 16: Other Information****Current Issue Date:** January 23, 2009

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