

**Safety Data Sheet**  
MonoChlorobenzene

**SECTION I - IDENTIFICATION**



Transchem, Inc.  
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(800) 783-2436  
Chemtel Emergency Response :. (800) 255-3924

**PRODUCT NUMBER:** ..... MCB  
**PRODUCT NAME:** ..... MonoChlorobenzene  
**CHEMICAL FAMILY:** .....  
**CAS NUMBER:** ..... 108-90-7  
**DATE PREPARED:** ..... 5/17/2005  
**REVISION NUMBER:** ..... 1/10/2011

**SECTION II - HAZARDOUS IDENTIFICATION**

**GHS CLASSIFICATION:**

**Classification**

Flammable Liquids	Category 3
Skin Corrosion/Irritation	Category 2
Acute Toxicity, Inhalation	Category 4
Hazardous to the aquatic environment, long-term hazard	Category 2

**WARNING!**

**GHS LABEL:**



**Hazard Statements**

H226	Flammable liquid and vapor
H315	Causes skin irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

# Safety Data Sheet

## MonoChlorobenzene

### Precautionary Statements

- P210 Keep away from heat/sparks/open flames/hot surface - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/light/equipment, etc.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+352 IF ON SKIN: Wash with soap and water.
- P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- p304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or a doctor/physician if you feel unwell.
- P332+313 If skin irritation occurs: get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370+378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
- P391 Collect spillage.
- P403+235 Store in a well ventilated place. Keep cool.
- P501 Dispose of contents/container to an approved waste disposal plant.

### **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Chlorobenzene	108-90-7	99.9	75 ppm	10 ppm

### **SECTION IV - FIRST AID MEASURES**

**Contact with eyes:** Flush with water for 15 minutes. Seek immediate medical attention.

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- Skin contact:** Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.
- Inhalation:** Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.
- Ingestion:** If swallowed. Do not induce vomiting. Seek immediate medical attention.  
If vomiting occurs, keep head below hips to prevent aspiration into lungs.  
If exposed person is unconscious put him/her in the recovery position.

**SECTION V - FIREFIGHTING MEASURES**

- Suitable Extinguishing Media:** Water fog, foam, CO<sub>2</sub>, dry chemical.
- Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.
- Unusual Fire Fighting Hazards:** Chlorobenzene is a flammable liquid whose vapours combine with air to form an explosive mixture with a lower explosion limit. Fumes are heavier than air. Products of combustion are: hydrogen chloride, and under conditions of limited availability of oxide, carbone oxide and phosgene may be formed.

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Keep all sources of ignition and hot metal surfaces away from spill or release.  
Wear appropriate personal protective equipment.  
Do not breathe fumes. Ensure free supply of fresh air in closed rooms.
- Environmental Precautions:** Prevent liquid from entering drains, sewers, waterways, ground and surface water or soil.  
Risk of explosion in drains.
- Methods for Cleaning Up:** Absorb spills with the use of a solid absorber (e.g. dry sand, diatomaceous earth).  
In the case of contamination of ground, collect contaminated soil in containers for treatment and/or disposal.  
Risk control measure and product handling procedures are described under sections 7 and 8. Wast treatment methods under section 13.

**SECTION VII - HANDLING AND STORAGE**

- Handling and Storage:**
- Keep container tightly closed and in a well-ventilated place. Keep away from heat, sparks, and open flame.
  - Avoid handling at higher temperatures.
  - Avoid contact with oxidizing substances.
  - Protect against access by unauthorized persons.
  - Follow work safety regulations in place.

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**SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

Component Name	CAS #	OSHA PEL	ACGIH TLV
Chlorobenzene	108-90-7	75 ppm	10 ppm

**Engineering Controls:** Adequate local or mechanical ventilation to reduce vapor or mist to below the PEL or TLV.

**Monitoring:** Follow accepted work practices for handling a flammable material. Do not eat, drink or smoke in areas where this chemical is used or stored. Have eye wash stations and safety showers readily available.

**Personal Protective Equipment (PPE)**

**Eye Protection:** Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

**Skin Protection:** Impervious solvent resistant gloves. Impervious apron and work boots recommend where splashing may occur.

**Respiratory Protection:** Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Colorless Liquid
<b>Odor</b>	Almond-like
<b>pH@25°C</b>	neutral
<b>Melting/Freezing Point</b>	-46°C
<b>Flashpoint</b>	28°C
<b>Specific Gravity</b>	1.107 g/cm <sup>3</sup> @ 20°C
<b>Solubility</b>	0.207 g/L w 20°C
<b>Auto-Ignition Temperature</b>	590°C
<b>Decomposition Temperature</b>	No data available
<b>VOC Content</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Boiling Range</b>	132°C
<b>Evaporation Point</b>	No data available
<b>Flammable Limits - Upper</b>	No data available
<b>Flammable Limits - Lower</b>	No data available
<b>Vapor Pressure</b>	1.17 kPa @ 20°C
<b>Vapor Density (Air=1)</b>	3.89
<b>Viscosity</b>	0.756 mPa s

**SECTION X - STABILITY AND REACTIVITY**

**Stability:** Stable, under normal conditions of storage and handling.

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**Conditions to Avoid:** Extreme heat and ignition sources.  
Heating over 40°C

**Hazardous Decomposition/Byproducts:** Product of thermal decomposition - Hydrogen Chloride, and in special cases (small amounts of Oxide) - Phosgene and carbon oxide.

**Hazardous Polymerization:** Will not occur.

**Polymerization Conditions to Avoid:** None

## SECTION XI - TOXICOLOGICAL INFORMATION

**Likely Route of Exposure:** Contact and inhalation; ingestion possible.

**Inhalation:** Breathing spray or mists can be harmful.

**Eye Contact:** Causes eye irritation including stinging, watering and redness which may result in corneal injury.

**Skin Contact:** May be absorbed through the skin.  
Irritating and degreasing effect.

**Ingestion:** None Known

### Toxicity:

Component Name	LD50	LC50
Chlorobenzene	Oral (rat): >2000 mg/kg	66 mg/L x (1.8h/4h) = 29.7 mg/L

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

## SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic to aquatic organisms, may cause long-term changes in the environment.  
Adverse effect on growth of plants. Toxic to bacteria.

**Mobility:** The substance is heavier than water and may penetrate into ground waters.

**Degradability:** Not readily degradable.

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**BioAccumulation:** Not Bioaccumulative.

**SECTION XIII - WASTE DISPOSAL CONSIDERATIONS**

Follow all Federal, State & Local requirements for the disposal of product and packaging.

**SECTION XIV - TRANSPORT INFORMATION**

**DOT SHIPPING INFORMATION**

**Proper Shipping Name:** CHLOROBENZENE

**Contains:**

**Hazard Class and Label:** 3

**Identification Number:** UN1134

**Packaging Group:** III

**SECTION XV - REGULATORY INFORMATION**

**TSCA STATUS:**..... The components of this product are listed on the TSCA Inventory

**SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:**

No chemicals in this material are subject to the reporting requirements.

**SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:**

Acute	Chronic	Fire	Pressure	Reactive
X	X	X	N/A	N/A

**SARA TITLE III SECTION 313 SUPPLIER INFORMATION:**

Component Name	CAS #	% by wt.
Chlorobenzene	108-90-7	99.9

**CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:**

Component Name	CAS #	% by wt.	RQ (lbs.)
Chlorobenzene	108-90-7	99.9	100

**SECTION XVI - OTHER INFORMATION**

**HMIS Health:** ..... 2

**HMIS Flammability:** ..... 3

**HMIS Reactivity:** ..... 0

**Additional:** CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains the following chemical known to the state of california to cause cancer: Monochlorobenzene.

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**Specification Information**

**Department issuing data sheet:** Compliance

**Email address:** [compliance@transcheminc.com](mailto:compliance@transcheminc.com)

**Training necessary:** Follow all Federal, State and local regulations.

**Disclaimer:**

Seller and manufacturer disclaim any implied or expressed warranties, including warranties of merchantability or fitness of this product for any particular purpose. In no event shall seller be liable for any claim for incidental or consequential damages arising out of or in connection with the sale, delivery, transportation or use of this product. Seller's and manufacturer's liability in all events is limited to, and shall not exceed the purchase price paid for this product.

