

Material Safety Data sheet

Product	Appearance	CAS Number
Benzene (C₆H₆)	Clear Colorless Liquid	71-43-2

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Trade Name : Benzene

Chemical Family : Aromatic Hydrocarbon

Recommended use : Chemical Intermediate, Solvent & Fuel Additive

SECTION 2 : DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET


techinergy
 +91 8682 00 9999
 mail@techinergy.com
 www.techinergy.com

SECTION 3 : HAZARDS IDENTIFICATION

Hazard Statements

- H225: Highly flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H350: May cause cancer.

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P370+P378: In case of fire: Use foam, dry powder, or CO₂ to extinguish.

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SECTION 4 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name of the Substance : **Benzene**

Other Information: Contains $\geq 99.8\%$ benzene by GC analysis.

SECTION 5 : FIRST AID MEASURES

Description of first aid measures

Inhalation : Move to fresh air immediately; seek medical attention if breathing difficulty persists.

Skin contact : Wash with soap and water; remove contaminated clothing.

Eye contact : Rinse immediately with plenty of water for several minutes, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion : Do not induce vomiting; rinse mouth with water and seek immediate medical attention.

Most Important Symptoms and Effects

Acute Effects : Dizziness, headache, nausea, skin and eye irritation, or respiratory distress.

Delayed Effects : Prolonged exposure may cause liver and kidney damage, central nervous system depression, or chronic respiratory issues.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek immediate medical attention if symptoms like difficulty breathing, loss of consciousness, severe skin burns, or persistent eye irritation occur.

Special treatment may include oxygen therapy, symptomatic support for respiratory distress, or flushing exposed areas with large amounts of water.

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SECTION 6 : FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media (Dry powder, carbon dioxide. Sand). Heavy foam and water fog for professional fire-fighters.

Fire-fighting Instruction

Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient state. Isolate danger area, keep unauthorized personnel out. Contain spill if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. With water, cool equipment exposed to fire if it can be done with minimal risk.

SECTION 7 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Eliminate fire risk by keeping ignition sources out of the area. Evacuate people upwind from the spill area. Wear adequate protective equipment at all operations.

Environmental precautions

Try to restrict the release and prevent spread of the product into the environment. Collect liquid before it spreads into drains, the ground and waters. In case of spill, immediately contact local authorities. Risk of soil and ground water contamination.

Methods and materials for containment and cleaning up

Immediately start clean-up of the liquid and contaminated soil. Small amounts can be collected using absorbent material. Pay attention to the fire and health hazards caused by the product.

SECTION 8 : HANDLING AND STORAGE

Precautions for Safe Handling

Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. All containers should be disposed of in an environmentally-safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to Occupational Safety and Health Administration

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Regulations, ANSI 249.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

Conditions for Safe Storage, including any incompatibilities

Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 9). Protect container(s) against physical damage.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Odor	:	Sweet Aromatic Odor
Flash point	:	-11°C
Specific Gravity	:	> 0.790

SECTION 10 : STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None known.

Conditions to avoid

Keep away from fire, sparks and heated surfaces.

Incompatible materials

Oxidizing agents

Hazardous decomposition products

No hazardous decomposition products are known.

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SECTION 11 : DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Disposal Recommendations

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Regulatory Disposal Information

- Complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)
- TSCA: Listed.

Empty Container Warning

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 12 : TRANSPORT INFORMATION

UN Number	:	1114
Road (ADR) / Rail (RID)/ River (ADNR)	:	Flammable Liquid (Class 3)
Marine (IMO-IMDG)	:	Flammable Liquid (Class 3)

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SECTION 13 : OTHER INFORMATION

This product is supplied on the understanding that it will be used in the manner and for the purpose(s) specified in the product data sheet, the user having taken all precaution stimulated. Failure to follow such direction may adversely affect any rights that the user might have against the company. Before application other than as directed, advice must be obtained from the company.

Disclaimer:

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MSDS Preparation

Sources Used : M.S.D.S. of product Components and similar products.
Prepared By : Product safety & Quality control department.
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