



MATERIALS SAFETY DATA SHEET (MSDS) Ethyl methyl benzene (1-Ethyl-2-methylbenzene)	MSDS Number:	
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1. Product Identification

Product name	1-Ethyl-2-methylbenzene
Synonyms	1-Methyl-2-ethylbenzene; 2-Ethyltoluene, Benzene, 1-ethyl-2-methyl
CAS No	611-14-3
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Supplier	
E-Mail	Entity 1 Made by India
Contact Person	
Emergency Telephone	



2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Aspiration Toxicity	Category 1



Label Elements	 
Signal Word	Danger
Hazard Statements	Flammable liquid and vapor. May be fatal if swallowed and enters airways.
Precautionary Statements	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection.
Skin	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
Fire	In case of fire: Use CO2, dry chemical, or foam for extinction.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC)	None identified

3. Composition and ingredient information

Chemical name	CAS number	%
1-Ethyl-2-methylbenzene	611-14-3	12

4. First-aid measures



Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs (by aspiration).
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control centre immediately. If vomiting occurs naturally, have victim lean forward.
Major symptoms and harm effects	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to physician	Treat symptomatically

5. Fire-fighting measures

Suitable extinguishing media	<p>All these products have a very low flash point: Use of water spray when fighting fire may inefficient.</p> <p>CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.</p> <p>SMALL FIRE: Dry chemical, CO₂, water spray or regular foam</p> <p>LARGE FIRE: Water spray, fog or regular foam. Do not use straight streams. Move containers from fire area if you can do it without risk.</p> <p>FIRE INVOLVING TANKS OR CALOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. With immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire.</p>
Specific Hazards Arising from the Chemical	Flammable. Containers may explode when heated. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back.
Hazardous Combustion Products	Carbon monoxide (CO). Carbon dioxide (CO ₂).
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures



Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Oxidizing agent.

8. Exposure Controls/ Personal Protection India

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure Limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard - EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.



	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type	Organic gases and vapours filter. Type A. Brown. conforming to EN14387.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Color	Light yellow
Odor	pungent
Odor Threshold	No information available
pH	Not applicable
Boiling Point/Range	164 - 165 °C / 327.2 - 329 °F
Melting Point/Range	-17 °C / 1.4 °F
Evaporation Rate	No information available
Specific Gravity	0.884
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	440 °C / 824 °F
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactivity	No information available
Chemical stability	Stable under normal conditions
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Oxidizing agent
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO ₂)

11. Toxicological information



Acute Toxicity

Product Information - Component Information

Toxicologically Synergistic Products	No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Irritation	No information available.
Sensitization	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	ACGIH	OSHA
1-Ethyl-2-methylbenzene	611-14-3	Not listed	Not listed

Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	None known
STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects, both acute and delayed	Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability	Insoluble in water May persist based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.



13. Disposal considerations

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated packaging	Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purpose disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

Component	DOT	TDG	IATA	IMDG/IMO
UN number or ID number	UN3295	UN3295	UN3295	UN3295
UN proper shipping name	Hydrocarbons, liquid, n.o.s.	Hydrocarbons, liquid, n.o.s.	Hydrocarbons, liquid, n.o.s.	Hydrocarbons, liquid, n.o.s.
Hazard class	3	3	3	3
Packing group	II	II	II	II

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	No information available
Chemical safety assessment	No information available

16. Other Information

History

Product name
Product code
Date of printing
Date of issue/Date of revision



Date of previous issue
Version
Prepared by

17. Change Details

