

Ethylbenzene**03080-1L**

Version 1.1

Revision Date 08/21/2018

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Ethylbenzene

Number : 000000020735

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : characteristic

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Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 2
Acute toxicity, Category 4, Inhalation
Carcinogenicity, Category 2
Specific target organ toxicity - repeated exposure, Category 2, Sensory organs
Aspiration hazard, Category 1

GHS Label elements, including precautionary statements

Symbol(s)



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Harmful if inhaled.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Use only outdoors or in a well-ventilated area.

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Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/ attention.

Do NOT induce vomiting.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

IARC: Ethylbenzene 100-41-4
Group 2B: Possibly carcinogenic to humans

ACGIH: Ethylbenzene 100-41-4
A3: Confirmed animal carcinogen

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₈H₁₀

Chemical nature : Substance

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Chemical name	CAS-No.	Concentration
Ethylbenzene	100-41-4	<=100.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If breathed in, move person into fresh air. Call a physician immediately.
- Skin contact : After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.
- Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Dry powder
Carbon dioxide (CO2)
Foam
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Flammable.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

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Fire may cause evolution of:
Carbon oxides

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Wear personal protective equipment. Unprotected persons must be kept away.
Do not breathe vapours or spray mist.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Wear personal protective equipment.
Do not breathe vapours or spray mist.
Do not swallow.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.

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Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.
Do not breathe vapours/dust.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hygiene measures : General industrial hygiene practice.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Ethylbenzene	100-41-4	TWA : Time weighted average	(20 ppm)	12 2010	ACGIH:US. ACGIH Threshold Limit Values

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Ethylbenzene	100-41-4	REL : Recomm ended exposure limit (REL):	435 mg/m3 (100 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Ethylbenzene	100-41-4	STEL : Short term exposure limit	545 mg/m3 (125 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Ethylbenzene	100-41-4	PEL : Permissi ble exposure limit	435 mg/m3 (100 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Ethylbenzene	100-41-4	STEL : Short term exposure limit	545 mg/m3 (125 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Ethylbenzene	100-41-4	TWA : Time weighted average	435 mg/m3 (100 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : colourless

Odor : characteristic

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Melting point/range	: -95 °C
Boiling point/boiling range	: 135 - 137 °C at 1,013 hPa
Flash point	: 59 °F (15 °C) Method: closed cup
Lower explosion limit	: 1.0 %(V)
Upper explosion limit	: 6.7 %(V)
Vapor pressure	: 9.5 hPa at 20 °C(68 °F)
Density	: 0.87 g/cm3 at 20 °C
Water solubility	: 0.2 g/l at 25 °C
Partition coefficient: n-octanol/water	: log Pow: 3.6
Ignition temperature	: 430 °C
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, kinematic	: 0.64 mm2/s at 40 °C
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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Molecular weight : 106.17 g/mol

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents
Strong acids and strong bases

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: ca. 3,500 mg/kg
Species: Rat

Acute inhalation toxicity : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Acute dermal toxicity : LD50: 15.4 g/kg
Species: Rabbit

Skin irritation : Species: Rabbit
Result: slight irritation

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Eye irritation	: Species: Rabbit Result: slight irritation
Sensitisation	: Note: no data available
Genotoxicity in vitro	: Note: Not classified due to data which are conclusive although insufficient for classification.
Genotoxicity in vivo Ethylbenzene	: Species: Mouse Cell type: Micronucleus Application Route: Inhalation Result: negative

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: LC50: 5.1 mg/l Exposure time: 96 h Species: Menidia menidia (Atlantic silverside)
Toxicity to daphnia and other aquatic invertebrates	: EC50: 1.8 - 2.4 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	: EC50: 3.6 mg/l Exposure time: 96 h Species: Pseudokirchneriella subcapitata (green algae)
Toxicity to daphnia and other aquatic invertebrates	: NOEC: 0.96 mg/l Exposure time: 7 d

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(Chronic toxicity)

End point: Reproduction Test
Species: Ceriodaphnia dubia (water flea)**Elimination information (persistence and degradability)**Biodegradability : CO2 formation in % of theoretical value
Result: Readily biodegradable.
Value: 70 - 80 %
Method: OECD Test Guideline 310**Further information on ecology**

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION**DOT**
UN/ID No. : UN 1175
Proper shipping name : ETHYLBENZENE
Class : 3
Packing group : II
Hazard Labels : 3**IATA**
UN/ID No. : UN 1175
Description of the goods : ETHYLBENZENE
Class : 3
Packaging group : II
Hazard Labels : 3
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353

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	Packing instruction (passenger aircraft)	: Y341
IMDG	UN/ID No.	: UN 1175
	Description of the goods	: ETHYLBENZENE
	Class	: 3
	Packaging group	: II
	Hazard Labels	: 3
	EmS Number	: F-E, S-D
	Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances
Control Act : On TSCA Inventory

Australia. Industrial
Chemical (Notification and
Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian
Environmental Protection
Act (CEPA). Domestic
Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals
Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing
Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of : On the inventory, or in compliance with the inventory

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Chemicals (NZIoC), as
published by ERMA New
Zealand

National regulatory information

US. EPA CERCLA
Hazardous Substances (40
CFR 302) : The following component(s) of this product is/are subject to
release reporting under 40 CFR 302 when release exceeds the
Reportable Quantity (RQ):

Reportable quantity: 1000 lbs
: Ethylbenzene 100-41-4

SARA 302 Components : No chemicals in this material are subject to the reporting
requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels
established by SARA Title III, Section 313:
: Ethylbenzene 100-41-4

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

**CERCLA Reportable
Quantity** : 1000 lbs

California Prop. 65 :  **WARNING:** This product can expose you to chemicals,
listed below, known to the State of California to cause cancer.
For more information go to www.P65Warnings.ca.gov.

Ethylbenzene 100-41-4

Massachusetts RTK : Ethylbenzene 100-41-4

New Jersey RTK : Ethylbenzene 100-41-4

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Pennsylvania RTK

: Ethylbenzene

100-41-4

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group