



SAFETY DATA SHEET

Date of issue: 15/04/99

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: P27118

ID No.: 1451200

Product name: **1,2,4-Trimethylbenzene (pseudo cumene)**

Manufacturer/supplier identification

Company: VWR International Ltd., Merck House, Poole, Dorset, BH15 1TD, England
Telephone : +44 (0) 1202 669700 Telefax : +44 (0) 1202 665599

Emergency telephone No.: +44 (0) 1202 669700

2. Composition/information on ingredients

Chemical characterization

Hydrocarbon

Product name: 1,2,4-Trimethylbenzene

CAS number: 95-63-6

EC-No.: 202-436-9

3. Hazards identification

Flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash

before re-use. In severe cases, OBTAIN MEDICAL ATTENTION.

- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5. Fire-fighting measures

Special risks:

Flammable. May evolve toxic fumes in fire.

Suitable extinguishing media:

Water mist, foam, dry powder, carbon dioxide. Prevent fire fighting water entering watercourses or ground-water. Do not stay in dangerous zone without respiratory protective equipment.

6. Accidental release measures

Shut off all sources of ignition. Wear appropriate protective clothing.

Absorb on an inert absorbent, (e.g. BDH Spillage absorption granules), transfer to a suitable container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Do not breathe vapour. Take precautions against static discharge. Keep away from sources of ignition. Apply skin-protective barrier cream. Do not empty into drains.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

UK Exposure Limits:

OES - Trimethylbenzenes, all isomers or mixtures:

Long-term: 125 mg/m³ (25 ppm) (IOELV)

Personal protective equipment:

As appropriate to the situation and the quantity handled.

- Respirator: Self-contained breathing apparatus
- Ventilation: Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.
- Gloves: Viton, Nitrile
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information:

Form:	liquid
Colour:	colourless
Odour:	aromatic

Health, safety and environmental information:

Melting temperature	-43.8°C
Boiling temperature	169-171°C
Density(g/ml)	0.876
Vapour pressure	341mmHg, 140°C
Relative vapour density:	4.15
Solubility in water	Practically insoluble
Flash point	44°C
Explosion limits: lower:	No data
Log P(o/w):	3.60

10. Stability and reactivity

Stable.

Substances to be avoided: strong oxidizing agents

The possibility of reaction with other substances cannot be excluded.

11. Toxicological information

- After inhalation of vapours: irritant effect, dizziness, headache.

In high doses: inebriation, agitation, unconsciousness, respiratory paralysis, spasms, CNS disorders.

- After skin contact: Irritation. Degreasing effect on the skin, possibly followed by secondary inflammation.

- After eye contact: Irritation.

Ingestion may result in: pain, vomiting.

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

Further data

LD50 5000 mg/kg oral, rat.

LC50 18 mg/l inhalation, rat.

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

12. Ecological information

Bioaccumulation potential: medium (Log Pow 2-4).

Toxic for aquatic organisms

Adverse ecological effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water supplies, waste water, or soil!

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

When recovery and recycling is not possible, incineration in a high temperature incinerator is the recommended method of disposal.

14. Transport information

UN-No.: 1993

Class: 3

Packaging group: III

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (1,2,4-TRIMETHYLBENZENE)

ADR/RID: 3,31'(c)

15. Regulatory information

Labelling according to EC directives

Symbol: Xn N Harmful. Dangerous for the environment.

R-phrases: R10-20-36/37/38-51/53

Flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S26-61

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid release to the environment. Refer to special instructions/Safety data sheets.

EC-No.: 202-436-9

Local Regulations

U.K. Transport Category 3

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

16. Other information

Revision.

Supersedes edition of: 18/08/94

Reason for alteration: Changes in Section : 13, 15. General update.

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