

TOLUENE

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Compilation date: 12/02/2014

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: TOLUENE
CAS number: 108-88-3
Product code: F80521

Synonyms: METHYLBENZENE PHENYLMETHANE

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Philip Harris Ltd

2 Gregory Street

Hyde Cheshire SK14 4HR United Kingdom

Tel: +44 (0)845 1200 506 **Fax:** +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Lig. 2: H225; Repr. 2: H361d; STOT SE 3: H336; Skin Irrit. 2: H315; Asp. Tox. 1:

H304; STOT RE 2: H373

Classification under CHIP: F: R11; Xi: R38; Xn: R48/20; Xn: R63; Xn: R65; -: R67

Most important adverse effects: Highly flammable liquid and vapour. Suspected of damaging the unborn child. May be

fatal if swallowed and enters airways. May cause damage to organs through prolonged

or repeated exposure. Causes skin irritation. May cause drowsiness or dizziness.

2.2. Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H361d: Suspected of damaging the unborn child. H304: May be fatal if swallowed and enters airways.

H373: May cause damage to organs through prolonged or repeated exposure.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

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Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark GHS08: Health hazard







Precautionary statements: P201: Obtain special instructions before use.

P210: Keep away from . - No smoking.

P243: Take precautionary measures against static discharge.

P281: Use personal protective equipment as required.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P309: IF exposed or if you feel unwell:

P310: Immediately call a POISON CENTER or doctor.

P301: IF SWALLOWED:

P331: Do NOT induce vomiting.

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: TOLUENE

Contains: Molecular Formula: C6H5CH3

Molecular Weight: 92.14 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Remove

contaminated, saturated clothing immediately. In case of skin reactions, consult a

Doctor

Eye contact: Bathe the eye with running water for 15 minutes. Protect Uninjured eye. Remove contact

lenses, if present and easy to do. Consult a doctor.

Ingestion: Immediately call the POISON CENTRE or a doctor. Do not induce vomiting. Rinse mouth

thoroughly with water. Give nothing to eat or drink.

Inhalation: Immediately call the POISON CENTRE or a doctor. Move to fresh air in case of

accidental inhalation of vapours. If breathing is irregular or stopped, administer artifical

respiration.

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be fatal if swallowed and enters airways. May cause dizziness. May cause

drowsiness.

Inhalation: May be harmful if inhaled, may cause respiratory tract irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray ABC-Powder Carbon Dioxide (CO2) Nitrogen

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire may be liberated: Carbon Dioxide (CO2) Carbon monoxide

5.3. Advice for fire-fighters

Advice for fire-fighters: DO NOT fight fire when fire reaches explosives. Wear self-contained breathing

apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use

personal protection equipment. Avoid contact with skin, eyes & clothes.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Danger of explosion.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Spilled product must never be returned to the original container for recycling. Absorb with

liquid-binding material (eg sand, diatomaceous earth, acid- or universal binding

agents). Ventilate affected area.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered,

arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventillated by technical means. Keep away from sources of ignition - no smoking. Take measures to prevent

build up of electrostatic charge.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Storage temperature 15-25°C Tightly Closed. Dry. Store in a cool, dry place. Keep/Store

away from combustible materials.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Technical measures and the application of suitable work processes have priority over

personal protection equipment. If handle uncovered, arrangements with local exhaust

ventilation have to be used.

Respiratory protection: Full-/half-/quarter-face masks (DIN EN 136/140)

Hand protection: By short-term hand contact wear Nitrile Rubber Gloves, 0,425mm thick with a

breakthrough time of 30 mins. For long term hand contact wear PE (polyethylene),-- thick

with a breakthrough time of 480mins.

Eye protection: Safety glasses with side-shields.

Skin protection: Wash hands before breaks and after work. Avoid contact with skin and eyes. When

using do not eat, drink or smoke. Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: No data available

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: 0,53g/l (20°C)

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

Boiling point/range°C: 110.6°C(1013hPa) **Melting point/range°C:** -95°C

Flammability limits %: lower: 1.2 upper: 8

Flash point°C: 4°C Part.coeff. n-octanol/water: 2.73 (20°C)

Autoflammability°C: 535°C Vapour pressure: 36,7 mmHg (30°C)

Relative density: 0.867 g/cm³(20°C)

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9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: No data available

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Reproductive toxicity		Based on test data
STOT-single exposure	-	Based on test data
STOT-repeated exposure	-	Based on test data
Aspiration hazard	-	Based on test data

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be fatal if swallowed and enters airways. May cause dizziness. May cause

drowsiness.

Inhalation: May be harmful if inhaled. may cause respiratory tract irritation.

Section 12: Ecological information

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12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: Partition Coefficient: n-octanol/water 2.73 (20°C)

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose according to legislation. Consult the appropriate local waste disposal expert

about waste disposal.

Waste code number: 07 01 04

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1294

14.2. UN proper shipping name

Shipping name: TOLUENE

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 2

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Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R11: Highly flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.