1. Identification

Product Code 1110725

Product Name TOLUENE (low in sulphur)

Molecular Formula $C_6H_5CH_3 = 92.14$

CAS Number 108-88-3

Supplier:



CAMLAB LIMITED

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(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Toluene	108-88-3	203-625-9	> 99.0%	F Xn : R11,R20	WEL

3. Hazards Identification





Highly flammable. Harmful by inhalation.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the

eye open. OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and

wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL

ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION

URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty

in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Firefighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are

explosive.

Extinguishing

Media

Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to

keep fire exposed containers cool.

Unsuitable

Media

Do not use water jet.

6. Accidental Release Measures

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Personal Protection equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Major Spillage

Wash area down with copious amounts of water.

Contain and absorb on inert material. Transfer absorbent to container for removal. Allow Minor Spillage

solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste.

Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions All transfer systems should be earthed to prevent accumulation of static electricity. Avoid

contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

Storage Conditions Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of

ignition. Keep containers closed when not in use. Keep well separated from oxidising

8.1 Workplace Exposure Limits

Workplace Exposure Limits 188.0 Long Term (8hr TWA): 50.00 ppm mam-3Short Term (15min Period): 150.0 560.0 mg m-3 ppm

Special Hazards Can be absorbed through skin.

8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits.

If not, use a well maintained chemical cartridge organic vapour respirator, or use self

contained breathing apparatus.

Hands Use solvent resistant gloves.

Eyes Use chemical splash proof glasses or goggles.

Avoid contact with skin. If skin contact or contamination of clothing is likely, protective Skin

clothing must be worn.

9. Physical & Chemical Properties

Clear colourless liquid. Appearance

Odour Characteristic aromatic odour.

рН Not available Boiling point 111.0 °C 95.0- °C Melting point

7.0 °C(Closed cup) Flash point

Upper Flammable Limit 7.0 % 1.3 % Lower Flammable Limit. Auto Ignition 530.0 °C

Severe in confined spaces. Explosive properties

Oxidising Properties No.

36.7 mmHg @ 30,C Vapour Presure

Relative Density 0.8630 Water Solubility 0.05%

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

Materials to Avoid Strong oxidising agents.

Hazardous None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Decomposition Products

11. Toxicological Information

Eyes Both the vapour and liquid will, act as an eye irritant. Repeated exposure to the vapours

can lead to reversible corneal changes and conjunctivitis

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Skin

penetration is possible. May cause skin sensitisation.

LD50 Skin Rabbit 14000mg/Kg

Ingest The liquid causes damage to stomach and intestinal linings.

LD50 Ingest Oral Rat 7.3 ml/Kg

Inhalation Exposure to vapour concentrations above the occupational exposure limits will cause

narcosis. Prolonged exposure to vapour concentrations above the occupational exposure limits will cause headache, nausea, vomiting and irritation of the mucous membranes. High concentrations of vapour may produce central nervous system depression and unconsciousness.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity May be a mutagen.

malformations.

12. Ecological

Moderately toxic to mammals, fish and bacteria.

13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic

waste. Never dispose of into water courses or sewerage systems due to high risk of

explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of

explosion.

14. Transport Information

Proper Shipping Name Toluer UN Number 1294

UN Classification 3 Flammable liquid Subsidiary Risk None

Flash Point 7.0 °C(Closed cup)

Packing Group II
Transport Category 2
Marine pollutant No
ADR Hazard ID 33



15. Regulatory Information

Labelling Highly Flammable, Harmful.

Classification

Label Symbols E





15. Regulatory Information (continued)

Risk & safety Phrases Highly flammable. Harmful by inhalation. Keep out of reach of children. Keep away from

sources of ignition - No Smoking. Avoid contact with eyes. Do not empty in to drains. Take

precautionary measures against static discharges.

EEC Number 203-625-9

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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