

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: TOLUENE
CAS number: 108-88-3
EINECS number: 203-625-9
Index number: 601-021-00-3
Synonyms: METHYLBENZENE
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2. HAZARDS IDENTIFICATION

Main hazards: Highly flammable. Harmful by inhalation.
Other hazards: In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: TOLUENE 99.500%

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

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Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Steel drums. Stainless steel.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Workplace exposure limits**

WEL (8 hr TWA): 191 mg/m³

WEL (15 min STEL): 574 mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: PVC gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**State:** Liquid**Colour:** Colourless**Odour:** Characteristic odour**Solubility in water:** Slightly soluble**Also soluble in:** Most organic solvents.**Boiling point/range°C:** 110.6**Melting point/range°C:** -95**Flash point°C:** 4**Vapour pressure:** 22mm Hg @ 20 °C**Relative density:** 0.867 g/ml**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions. Stable at room temperature.**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.**Materials to avoid:** Strong oxidising agents. Strong acids.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Acute toxicity:** TOLUENE

IVN RAT LD50 1960 mg/kg

ORL MUS LD50 2 gm/kg

ORL RAT LD50 6900 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Mobility:** Readily absorbed into soil.**Persistence and degradability:** Biodegradable.**Bioaccumulative potential:** No bioaccumulation potential.**Other adverse effects:** Negligible ecotoxicity.**13. DISPOSAL CONSIDERATIONS****NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 1294**ADR Class:** 3**Packing group:** II**Classification code:** F1

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Shipping name: TOLUENE**Labelling:** 3**Hazard ID no:** 33**IMDG / IMO****UN no:** 1294**Class:** 3**Packing group:** II**EmS:** 3-07**Marine pollutant:** NO**Labelling:** 3**IATA / ICAO****UN no:** 1294**Class:** 3**Packing group:** II**Packing instructions:** 305(P&CA); 307(PAO)**Labelling:** 3**15. REGULATORY INFORMATION****Hazard symbols:** Highly flammable.

Harmful.

**Risk phrases:** R11: Highly flammable.

R20: Harmful by inhalation.

Safety phrases: S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe VAPOUR

S33: Take precautionary measures against static discharges.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. OTHER INFORMATION****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.