

CONTACT
0800 990 3258
enquiries@reagent.co.uk



ReAgent

TOLUENE TECH MSDS

According to Regulation (EC) No 1907/2006

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

| | |
|---------------------|--|
| PRODUCT NAME | TOLUENE TECH |
| CAS-No. | 108-88-3 |
| EU INDEX NO. | 601-021-00-3 |
| EC No. | 203-625-9 |
| SUPPLIER | Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcom Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: info@reagent.co.uk |
| PRODUCT NO. | 2606 |
| APPLICATION | General chemical reagent |
| EMERGENCY TELEPHONE | Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00 |

2 HAZARDS IDENTIFICATION

Highly flammable. Vapours may cause drowsiness and dizziness. Harmful: may cause lung damage if swallowed. Irritating to skin. Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CLASSIFICATION (67/548) F;R11 Repr. Cat. 3;R63 Xn;R48/20, R65 Xi;R38 R67

3 COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|--------------|--------------|
| EU INDEX NO. | 601-021-00-3 |
| EC No. | 203-625-9 |
| CAS-No. | 108-88-3 |

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention.

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Wash the skin immediately with soap and water. In serious cases or if discomfort continues obtain medical attention.

EYE CONTACT

Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Foam, dry powder, carbon dioxide or vaporising liquids.

TOLUENE TECH**UNUSUAL FIRE & EXPLOSION HAZARDS**

HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition. Forms explosive mixtures with air.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Isolate all ignition sources. Avoid heat, flames, sparks and static discharge. **NO SMOKING.** Small Spillages: Ventilate well. Absorb with inert, non-combustible material. Large Spillages: Dam and absorb spillages with sand, earth or other inert, non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage. Any extraction systems used to ventilate the area must be flameproof. After spillages in enclosed areas test atmosphere before using any potential ignition sources.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|--------------|-----|-------------|---------------|---------------|---------------|-------|
| | | | | | | |
| TOLUENE TECH | WEL | 50 ppm(Sk) | 191 mg/m3(Sk) | 150 ppm(Sk) | 574 mg/m3(Sk) | |

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection if vapours or mists are generated. Chemical respirator with organic vapour cartridge. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

HAND PROTECTION

Use protective gloves. Viton rubber (fluor rubber). Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. Wear plastic apron and full length gloves if handling large amounts. If there is a risk of splashing then wear a face shield.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------|--------------------|------------------------|------|
| APPEARANCE | Liquid | | |
| COLOUR | Colourless | | |
| ODOUR | Characteristic | | |
| SOLUBILITY | Insoluble in water | | |
| BOILING POINT (°C) | 111 | MELTING POINT (°C) | - 95 |
| RELATIVE DENSITY | 0.86 | VAPOUR DENSITY (air=1) | 3.14 |
| VAPOUR PRESSURE | 36.7 mm Hg 20 | FLASH POINT (°C) | 4 |

TOLUENE TECH

AUTO IGNITION 535
 TEMPERATURE (°C)
 FLAMMABILITY LIMIT - UPPER(%) 7.0

FLAMMABILITY LIMIT - LOWER(%) 1.4
 SOLUBILITY VALUE (g/100g H₂O@20°C) 0.05

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Nitric acid. Nitrogen oxides. Organic nitro compounds. Strong oxidising substances.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 636 mg/kg (oral rat)

TOXIC CONC. - LC 50 49 mg/l/4h (inh-rat)

INHALATION

Irritating to respiratory system. Harmful by inhalation. Vapours may cause drowsiness and dizziness.

INGESTION

Nausea, vomiting. Harmful: may cause lung damage if swallowed. Risk of aspiration upon vomiting.

SKIN CONTACT

Irritating to skin. May be absorbed through the skin. Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause secondary inflammation.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

Absorption of large quantities can lead to inebriation, unconsciousness, respiratory arrest and cardiovascular failure.

OTHER HEALTH EFFECTS

Toxic to Reproductive Health Category 3. Pregnant women should not be exposed to this product.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil.

LC 50, 96 Hrs, FISH mg/l 13 (C. auratus)

EC 50, 48 Hrs, DAPHNIA, mg/l 11.5

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS 3

PROPER SHIPPING NAME TOLUENE

UN NO. ROAD 1294

ADR CLASS NO. 3

ADR PACK GROUP II

HAZCHEM CODE 3YE

RID CLASS NO. 3

UN NO. SEA 1294

IMDG PAGE NO. 3

UK ROAD PACK GR. II

ADR CLASS Class 3: Flammable liquids.

ADR LABEL NO. 3

CEFIC TEC(R) NO. 30GF1-I+II

RID PACK GROUP II

IMDG CLASS 3

IMDG PACK GR. II

TOLUENE TECH

| | | | |
|------------------|----------|--------------|-----------|
| EMS | F-E, S-D | MFAG | See Guide |
| MARINE POLLUTANT | No. | UN NO. AIR | 1294 |
| AIR CLASS | 3 | AIR PACK GR. | II |

15 REGULATORY INFORMATION

LABELLING



Harmful



Highly Flammable

RISK PHRASES

| | |
|--------|---|
| 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. |

SAFETY PHRASES

| | |
|--------|---|
| S2 | Keep out of the reach of children. |
| S36/37 | Wear suitable protective clothing and gloves. |
| S46 | If swallowed, seek medical advice immediately and show this container or label. |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

This is first issue.

REVISION DATE 17/08/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 20828

SAFETY DATA SHEET STATUS

Approved.