



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : T 10929
Product Name : Toluene
Manufacturer / supplier identification Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755
Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: methyl benzene

CAS-No : 108-88-3 Ec-Index No. : 601-021-00-3
EC-No. : 203-625-9

3. HAZARDS IDENTIFICATION

Highly flammable. Harmful by inhalation.

4. FIRST AID MEASURES

After inhalation : Fresh air. Keep airways free.
After skin contact : Wash off with plenty of water. Remove
contaminated clothing.
After eye contact : Rinse out with plenty of water if pain persists
consult an eye specialist
After swallowing : Keep airways free. Sodium sulphate (1 tablespoon/
1/4l water). activated charcoal. No milk. No castor oil. Summon doctor.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : foam, powder, CO₂
Special risks : Combustible. Vapours heavier than air. Formation of
explosible mixtures possible with air. Keep away from sources of
ignition. Beware of backfiring.
Special protective equipment for fire fighting: Do not stay in
dangerous zone without self contained breathing apparatus.

Other information: Prevent fire fighting water from entering surface
water or ground water. Take measures to prevent electrostatic
charging. Cool container with spray water from a safe distance.

6. ACCIDENTAL RELEASE

Procedures for cleaning / absorption : Measures Take up with liquid
absorbent material. Forward for disposal. Clean up affected area.

Person – related precautionary measures : Do not inhale vapours/
aerosols. Avoid substance contact.

Environmental protection measures :
Do not allow to enter sewage system.



SAFETY DATA SHEET

Catalogue No. : T 10929
Product Name : Toluene

7. HANDLING AND STORAGE

Handling : Take measures to prevent electrostatic charging.
Storage : Tightly closed Dry .In a well ventilated place. Keep away from sources of ignition and heat. At +15 °C to +25 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment :Respiratory protection : Required when vapours/aerosols are generated.

Eye protection : Required
Hand protection : Required

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

Industrial hygiene : Change contaminated clothing . Application of skin protective barrier cream recommended. Wash hands after working with substance .

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Colourless
Odour	:	Characteristic
pH value at 10 g/l H ₂ O (20 ⁰ C)	:	Not available
Melting temperature	:	~95 °C
Boiling temperature	:	110.6
Ignition temperature	:	535 ⁰ C
Flash point	:	6 ⁰ C
Explosion limits lower	:	1.2 vol%
Upper	:	7.8vol %
Density (20 ⁰ C)	:	0.87 g/cm ³
Solubility in water (20 ⁰ C)	:	0.47 g/l

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating.
Substance to be avoided : Halogen halogen compounds, nitric acid, nitrogen oxides,organic comopounds,oxidising agent,uranium hexafluoride,sulphur/heat.

Hazardous decomposition products : No information available.

Further information : Highly inflammable;
Unsuitable working materials: various plastics, rubber.
Explosible with air in a vaporous/ gaseous state



SAFETY DATA SHEET

Catalogue No. : T 10929
Product Name : Toluene

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ (oral, rat): 636 mg/Kg LC₅₀ (inhalation, rat): 49mg/l/4h.

Subacute to chronic toxicity:

An embryo toxic effect need not be feared when the threshold limit value is observed.

Further toxicological information

After inhalation of vapours : Irritation symptoms in the respiratory tract.

After absorption : Agitation, spasms, narcosis.

After skin contact: Irritant effect.

After long term exposure to the chemical : Dermatitis.

Degreasing effect on the skin, possibly followed by secondary inflammation.

Danger of skin absorption.

After eye contact : Irritant effect (mucosal irritations)

After swallowing : nausea, vomiting. Risk of aspiration upon vomiting, absorption.

Systemic effects :

After absorption of large quantities: CNS disorders, inebriation, spasms, unconsciousness, respiratory arrest, cardiovascular failure.

Further data :

The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Biologic degradation: Water dissolved constituents biodegradable.

Behaviour in environmental compartments :

Distribution : Log P (oct) : 2.69; Low bio accumulation potential.

Ecotoxic effects: Biologic effects : Toxic for aquatic organisms.

Toxic on fish and plankton. Change in the flavour characteristics of fish protein. Risk of formation of explosive vapours above water surface. Fish toxicity : L.idus LC₅₀ : 70mg/l;

Daphnia toxicity: Daphnia magna EC₀: 270 mg/l;

Bacterial toxicity: Ps.putida EC₀: 29 mg/l;

Further ecologic data : BOD₅: 0.86g/g;

ThOD: 3013 g/g COD: 0.7 g/g;

Do not allow to enter waters, waste water or soil.

13. DISPOSAL METHOD

There are no uniform EC regulations for The disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge



SAFETY DATA SHEET

Catalogue No. : **T 10929**
Product Name : **Toluene**

or approved waste disposal companies which will advise you on how to dispose of special waste .

Disposal in compliance with official regulations. Handle contaminated packaging as in the same way as the substance itself. If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class : 3 Number and letter : 3b
ADR/RID class : 3 Number and letter : 3b
Name of material : TOLUENE

River transport AND/ADNR : Not examined

Sea transport IMDG : IMDG class : 3.2 UN –No. : 1294 Packaging group : II
Ems : 3-07 MFAG : 310
Correct technical name: TOLUENE

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class : 3 UN/ID-No. : 1294 Packaging group : II
Correct technical name: TOLUENE

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : F Highly flammable
Xn Harmful

R- Phrases : 11-20 Highly flammable. Harmful by inhalation.

S-phrases : 16-25-29-33 Keep away from sources of ignition - no smoking.
Avoid contact with eyes. Do not empty into drains.
Take precautionary measures against state.

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
