

**MATERIAL SAFETY DATA SHEET**

16-section GHS format

# Toluene

CAS 108-88-3 · ≥99% Purity

## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Toluene                                                                                                                |
| C.A.S. Number       | 108-88-3                                                                                                               |
| Product Category    | Paint, Ink & Coating Chemicals                                                                                         |
| Product Group       | Solvents                                                                                                               |
| Grade / Standard    | ≥99% Purity                                                                                                            |
| Identified Uses     | Solvent for paints, inks, adhesives. Industrial and professional use.                                                  |
| Supplier            | Scapex Exports Pvt. Ltd., 830, 8th Floor, Sun Gravitas, Times of India Road, Shyamal, Ahmedabad 380015, Gujarat, India |
| Emergency Telephone | +91 9925522674 (Mon–Sat, 09:30–18:30 IST)                                                                              |

## 2. HAZARDS IDENTIFICATION

|                    |                                        |
|--------------------|----------------------------------------|
| GHS Classification | Flammable liquid                       |
| Signal Word        | <b>DANGER</b>                          |
| Pictograms         | Flame, Health hazard, Exclamation mark |

 Flame

 Health hazard

 Exclamation mark

### Hazard statements

- 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 through prolonged or repeated exposure.

## Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P262 Do not get in eyes, on skin, or on clothing.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating and lighting equipment.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P337+P313 If eye irritation persists: Get medical advice / attention.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Chemical Identity     | Toluene                                                                |
| C.A.S. Number         | 108-88-3                                                               |
| Concentration / Grade | ≥99% Purity                                                            |
| Impurities            | No impurities present at concentrations that alter the classification. |

## 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation        | Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult give oxygen. Obtain medical attention.                                          |
| Skin contact      | Remove contaminated clothing. Wash the affected area with plenty of soap and water for at least 15 minutes. Obtain medical attention if irritation persists.                            |
| Eye contact       | Rinse immediately with plenty of water for at least 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do. Obtain immediate medical attention.           |
| Ingestion         | Do NOT induce vomiting. Rinse the mouth with water. Never give anything by mouth to an unconscious person. Obtain immediate medical attention and show this Material Safety Data Sheet. |
| Note to physician | Treat symptomatically. No specific antidote is known.                                                                                                                                   |

## 5. FIRE-FIGHTING MEASURES

|                                |                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | Alcohol-resistant foam, dry chemical powder or carbon dioxide. Water spray to cool containers. |
| Unsuitable extinguishing media | High-pressure water jet.                                                                       |

|                          |                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards         | Vapours are heavier than air and may travel to a distant ignition source and flash back. Containers may explode when heated.       |
| Advice for fire-fighters | Wear self-contained breathing apparatus and full protective clothing. Prevent fire-fighting water entering drains or watercourses. |

## 6. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Evacuate unnecessary personnel. Ensure adequate ventilation. Wear the protective equipment described in Section 8. Eliminate ignition sources where the product is flammable.                                                                             |
| Environmental precautions | Prevent entry into drains, sewers, surface water and groundwater. Notify the authorities if release to the environment occurs.                                                                                                                            |
| Containment and cleaning  | Contain with an inert absorbent (dry sand, earth or vermiculite) and collect into a labelled closed container for disposal. Do not use combustible absorbents where the product is an oxidiser. Ventilate the area and wash the spill site after pick-up. |

## 7. HANDLING AND STORAGE

|           |                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling  | Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Avoid formation and inhalation of dust, mist or vapour. Do not eat, drink or smoke in the work area.     |
| Storage   | Store in the original tightly closed container in a cool, dry, well-ventilated place away from direct sunlight and heat, and away from the incompatible materials listed in Section 10. |
| Packaging | Use only the original packaging or an equivalent material approved for this product.                                                                                                    |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                              |                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits | Refer to the national occupational exposure limits applicable in the country of use. Where no limit is established, keep airborne concentrations as low as reasonably practicable. |
| Engineering controls         | Local exhaust ventilation at points of dust, mist or vapour generation. Eyewash stations and safety showers close to the work station.                                             |
| Eye / face protection        | Chemical safety goggles to EN 166 / IS 5983. Face shield where splashing is possible.                                                                                              |
| Skin protection              | Chemical-resistant gloves to EN 374 (nitrile or butyl rubber). Chemical-resistant apron, suit and boots as required by the task.                                                   |
| Respiratory protection       | Where ventilation is insufficient use an approved respirator with a P2/P3 particulate filter for dusts or an appropriate vapour cartridge for solvents.                            |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                       |                                                     |
|-------------------------------------------------------|-----------------------------------------------------|
| Appearance                                            | Colourless liquid                                   |
| Odour                                                 | Characteristic                                      |
| Physical state                                        | Liquid                                              |
| Flash point                                           | 4 °C                                                |
| Purity / assay                                        | ≥99% Purity                                         |
| pH, melting point, boiling point, density, solubility | See the <a href="#">Toluene specification sheet</a> |

## 10. STABILITY AND REACTIVITY

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Reactivity                       | Stable under the recommended handling and storage conditions.                         |
| Conditions to avoid              | Heat, direct sunlight, moisture, ignition sources and mechanical damage to packaging. |
| Incompatible materials           | Strong oxidising agents, strong acids and strong bases.                               |
| Hazardous decomposition products | Oxides of carbon and other toxic fumes on thermal decomposition.                      |

## 11. TOXICOLOGICAL INFORMATION

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Likely routes of exposure | Inhalation, skin contact, eye contact and ingestion.                        |
| Acute toxicity            | Product-specific LD50/LC50 data available from the manufacturer on request. |
| Carcinogenicity           | Not classified as carcinogenic.                                             |
| Reproductive toxicity     | Classified — see Section 2.                                                 |

## 12. ECOLOGICAL INFORMATION

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| Aquatic toxicity              | No significant ecotoxicity expected at normal use concentrations. |
| Persistence and degradability | Assess against local discharge consent limits before release.     |
| Other adverse effects         | Do not allow the product to enter drains, sewers or watercourses. |

## 13. DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment        | Dispose of product and container through an authorised waste treatment or disposal facility in accordance with local, state and national regulations. |
| Contaminated packaging | Empty containers retain product residue. Triple-rinse where appropriate and offer for approved reconditioning or disposal.                            |

#### 14. TRANSPORT INFORMATION

|                         |                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number               | UN 1294                                                                                                                                             |
| UN proper shipping name | TOLUENE                                                                                                                                             |
| Transport hazard class  | 3                                                                                                                                                   |
| Packing group           | II                                                                                                                                                  |
| Marine pollutant        | No                                                                                                                                                  |
| IMDG / IATA / ADR       | Classified as shown above. Confirm the current entry and segregation requirements against the edition of the code in force at the time of shipment. |

#### 15. REGULATORY INFORMATION

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| Classification system | GHS Rev. 9; CLP Regulation (EC) No. 1272/2008.                                           |
| EU REACH              | Registration status held by the manufacturer. A REACH statement is available on request. |
| India                 | Manufacture, Storage and Import of Hazardous Chemicals Rules, as applicable.             |

#### 16. OTHER INFORMATION

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| Basis of classification | Taken from the published harmonised classification for this substance. |
| Revision                | Revision 1 — first issue                                               |
| Prepared by             | Quality Assurance, Scapex Exports Pvt. Ltd.                            |

**Disclaimer.** This Material Safety Data Sheet is provided in good faith and is believed correct at the date of issue. It relates only to the material identified and is not a specification. It does not constitute a warranty of merchantability or fitness for a particular purpose. Users must satisfy themselves as to its suitability and completeness for their own use.

