



# SAFETY DATA SHEET

**Product name:** Toluene Solvent

## 1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)

ADDRESS: PO Box 322 Castle Hill NSW 1765  
5 Tarlington Place, Smithfield NSW 2164

TELEPHONE NUMBER: 1300 796 009

FAX NUMBER: (02) 9604 1611

EMERGENCY TELEPHONE NUMBER: 1300 796 009

PRODUCT NAME: Toluene Solvent

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: HI8-3465

USE: Solvent

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information.

OTHER INFORMATION: Visit our website: [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)  
Email: hitecoils@hi-tecoils.com.au

## 2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: Hazardous according to the criteria of NOHSC, and GHS Classification. Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

DANGEROUS GOODS: Class 3

POISON SCHEDULE: S6. Poison



SIGNAL WORD: DANGER



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## 2. HAZARDS IDENTIFICATION (CONT)

### GHS HAZARD CLASSIFICATIONS:

FLAMMABLE LIQUIDS:

Category 2

ASPIRATION HAZARD:

Category 1

SKIN CORROSION/IRRITANT:

Category 2

TOXIC TO REPRODUCTION:

Category 1A

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE:

Category 3 Narcotic Effects

- REPEATED EXPOSURE:

Category 2

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.

H360 May damage fertility or the unborn child .

H373 May cause damage to organs through prolonged or repeated exposure.

PREVENTION PRECAUTIONARY STATEMENTS:

P102 Keep out of reach of children.

P103 Read label before use.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, lighting and all other equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust, fume, gas, mist, vapours or spray.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray..

P264 Wash hands, face and all exposed skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P281 Use personal protective equipment as required.

RESPONSE PRECAUTIONARY STATEMENTS:

P101 If medical advice is needed, have product container or label at hand.

P301+P310 IF SWALLOWED: Immediately call the POISONS INFORMATION CENTER on 13 11 26 or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call the POISONS INFORMATION CENTER on 13 11 26 or doctor/physician if you feel unwell.



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## 2. HAZARDS IDENTIFICATION (CONT)

### RESPONSE PRECAUTIONARY STATEMENTS:

P314 Get medical advice/attention if you feel unwell.  
P331 Do NOT induce vomiting.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370+P378 In case of fire: Use Carbon dioxide, dry chemical or foam for extinction.

### STORAGE PRECAUTIONARY STATEMENTS:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### DISPOSAL PRECAUTIONARY STATEMENT:

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS NO	PROPORTION
Toluene Solvent	108-88-3	100 % (w/w)
Ingredients determined to be Non-Hazardous		Balance

## 4. FIRST AID MEASURES

### GENERAL:

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

### INHALATION:

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

### SKIN CONTACT:

If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre on 13 11 26 or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

### EYE CONTACT:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.



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### 4. FIRST AID MEASURES (CONT.)

INGESTION:	Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call the Poisons Information Centre on 13 11 26 or Doctor.
NOTES TO PHYSICIAN:	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

HAZCHEM CODE:	3YE
SUITABLE EXTINGUISHING MEDIA:	If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).
SPECIFIC HAZARDS:	Highly flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.
FIRE FIGHTING FURTHER ADVICE:	Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
LARGE SPILLS:	If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.



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## 7. HANDLING AND STORAGE

### HANDLING:

Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

### STORAGE:

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Schedule 6 (Poison) and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### NATIONAL OCCUPATIONAL EXPOSURE LIMITS:

	TWA		STEL		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Toluene Solvent	50	191	150	574	SK

As published by Safe Work Australia.

### TWA:

The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

### STEL (Short Term Exposure Limit):

The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### 'SK' Notice:

Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT.)

**BIOLOGICAL LIMIT VALUES:**

As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**ENGINEERING MEASURES:**

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

**PERSONAL PROTECTION EQUIPMENT:**

SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.

Wear safety shoes, overalls, gloves, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**HYGIENE MEASURES:**

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**FORM:**

Liquid

**COLOUR:**

Colourless

**ODOUR:**

Aromatic

**SOLUBILITY IN WATER:**

0.515 kg/m<sup>3</sup>

**DENSITY:**

871 kg/m<sup>3</sup> (15°C) (typical)

**RELATIVE VAPOUR DENSITY (AIR=1):**

3.1

**VAPOUR PRESSURE (20 °C):**

Typical: 1 kPa (0°C); 3-3.5kPa (20°C); 12 kPa (50°C).

**FLASH POINT (°C):**

4°C (Abel)

**FLAMMABILITY LIMITS (%):**

1.2 (V) in air - 7.1 % (V) in air





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## 9. PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

AUTOIGNITION TEMPERATURE (°C):	480 - 536°C (ASTM E-659)
MELTING POINT/RANGE (°C):	-95°C (typical)
BOILING POINT/RANGE (°C):	110 – 111°C
EVAPORATION RATE (n-Butyl acetate=1):	6.1 (DIN 53170, di-ethyl ether=1)
ODOUR THRESHOLD:	1.74 ppm
MOLECULAR WEIGHT:	92 g/mol

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	This material is thermally stable when stored and used as directed.
CONDITIONS TO AVOID:	Elevated temperatures and sources of ignition.
INCOMPATIBLE MATERIALS:	Oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon and nitrogen, smoke and other toxic fumes.
HAZARDOUS REACTIONS:	No known hazardous reactions.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### ACUTE EFFECTS

INHALATION:	Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.
SKIN CONTACT:	Contact with skin will result in irritation.
INGESTION:	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.
EYE CONTACT:	May be an eye irritant.



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### 11. TOXICOLOGICAL INFORMATION (CONT.)

#### ACUTE TOXICITY

INHALATION:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L
SKIN CONTACT:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg
INGESTION:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg
CORROSION/IRRITANCY:	Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).
SENSITISATION:	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
ASPIRATION HAZARD:	This material has been classified as Aspiration Hazard – Category 1.
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.
<u>CHRONIC TOXICITY</u>	
MUTAGENICITY:	This material has been classified as non-hazardous.
CARCINOGENICITY:	This material has been classified as non-hazardous.
REPRODUCTIVE TOXICITY (INCLUDING VIA LACTATION):	This material has been classified as a Category 1A Hazard.
SPECIFIC TARGET ORGAN TOXICITY (REPEAT EXPOSURE):	This material has been classified as a Category 2 Hazard.

### 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

ACUTE AQUATIC HAZARD:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L
LONG-TERM AQUATIC HAZARD:	This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.







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## 12. ECOLOGICAL INFORMATION (CONT.)

ECOTOXICITY:	No information available.
PERSISTENCE AND DEGRADABILITY:	No information available.
BIOACCUMULATIVE POTENTIAL:	No information available.
MOBILITY:	No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



UN NO:	1294
DANGEROUS GOODS CLASS:	3
PACKING GROUP:	II
HAZCHEM CODE:	3YE
EMERGENCY RESPONSE GUIDE NO:	16
PROPER SHIPPING NAME:	TOLUENE

SEGREGATION DANGEROUS GOODS: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.



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## 14. TRANSPORT INFORMATION (CONT.)

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



UN NO: 1294  
DANGEROUS GOODS CLASS: 3  
PACKING GROUP: II  
PROPER SHIPPING NAME: TOLUENE

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN NO: 1294  
DANGEROUS GOODS CLASS: 3  
PACKING GROUP: II  
PROPER SHIPPING NAME: TOLUENE

## 15. REGULATORY INFORMATION

### **This material is not subject to the following international agreements:**

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

### **This material is subject to the following international agreements:**

- Basel Convention (Hazardous Waste)
  - Wastes from the production, formulation and use of organic solvents

### **This material/constituent(s) is covered by the following requirements:**

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).





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## 16. OTHER INFORMATION

**CONTACT PERSON/POINT:**

General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

**LITERATURE REFERENCES:**

- \* NOHSC:2011 National Code of Practice for the preparation of Safety Data Sheets.
- \* NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
- \* NOHSC: 10005 List of Designated Hazardous Substances.
- \* NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
- \* NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
- \* NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
- \* NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
- \* NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
- \* NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
- \* SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
- \* ADG: Australian Dangerous Goods Code
- \* SDS of component materials.

**LAST CHANGE:**

Supersedes document issued: 5 January 2017

Reason/s for revision: Minor editorial changes to comply with GHS requirements.

**TN710142/1**

**END OF SDS**

