

**Material Safety Data Sheet**

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

**Material Name** : **Toluene**  
**Uses** : Solvent. Raw material for use in the chemical industry.  
**Product Code** : T1402, Q9138, Q9131, Q9250, Q9300, Q9308, X211H  
  
**Supplier** : SHELL EASTERN CHEMICALS (S)  
A REGISTERED BUSINESS OF SHELL EASTERN  
TRADING (PTE) LTD (UEN:198902087C)  
9 North Buona Vista Drive , #07-01  
The Metropolis Tower 1  
Singapore 138588  
Singapore  
  
**Telephone** : +65 6384 8737  
**Fax** : +65 6384 8454  
  
**Emergency Telephone Number** : + (65) 6542 9595 (Alert-SGS)

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Material Formal Name** : Benzene, methyl  
**CAS No.** : 108-88-3  
**INDEX No.** : 601-021-00-3  
**EINECS No.** : 203-625-9

**Hazardous Components**

Chemical Name	CAS	EINECS	Symbol(s)	R-phrases(s)	Conc.
Toluene	108-88-3	203-625-9	F, Xn	R11; R38; R48/20; R63; R65; R67	100.00 %

**Additional Information** : Refer to chapter 16 for full text of EC R-phrases.

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**3. HAZARDS IDENTIFICATION**

**Health Hazards** : Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Slightly irritating to respiratory system. Irritating to skin. Slightly irritating to the eye. Harmful: may cause lung damage if swallowed. Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Auditory system. Central nervous system (CNS). Respiratory system. Visual system. Possible risk of harm to the unborn child.

**Signs and Symptoms** : Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation

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signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Auditory system effects may include temporary hearing loss and/or ringing in the ears. Visual system disturbances may be evidenced by decreases in the ability to discriminate between colours.

<b>Aggravated Medical Condition</b>	: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Auditory system. Central nervous system (CNS). Respiratory system. Eyes. Skin. Visual system. Kidney.
<b>Safety Hazards</b>	: Highly flammable. In use, may form flammable/explosive vapour-air mixture. This material is a static accumulator. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.
<b>Environmental Hazards</b>	: Not classified as dangerous under EC criteria.

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**4. FIRST AID MEASURES**

<b>General Information</b>	: Keep victim calm. Obtain medical treatment immediately.
<b>Inhalation</b>	: DO NOT DELAY. Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
<b>Skin Contact</b>	: Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
<b>Eye Contact</b>	: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
<b>Ingestion</b>	: If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3° C), shortness of breath, chest congestion or continued coughing or wheezing. Give nothing by mouth.
<b>Advice to Physician</b>	: Potential for chemical pneumonitis. Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider: oxygen therapy. Call a doctor or poison control center for guidance.

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**5. FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

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| <b>Specific Hazards</b>                      | : | The vapour is heavier than air, spreads along the ground and distant ignition is possible. Will float and can be reignited on surface water. Carbon monoxide may be evolved if incomplete combustion occurs. |
| <b>Extinguishing Media</b>                   | : | Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.   |
| <b>Unsuitable Extinguishing Media</b>        | : | Do not use water in a jet.   |
| <b>Protective Equipment for Firefighters</b> | : | Wear full protective clothing and self-contained breathing apparatus.  |
| <b>Additional Advice</b>                     | : | Keep adjacent containers cool by spraying with water.  |

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**6. ACCIDENTAL RELEASE MEASURES**

Observe all relevant local and international regulations.

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| <b>Protective measures</b> | : | Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low areas. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Ventilate contaminated area thoroughly. |
| <b>Clean Up Methods</b>    | : | For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.<br>For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.  |
| <b>Additional Advice</b>   | : | Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Vapour may form an explosive mixture with air. See Chapter 13 for information on disposal. For guidance on   |

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selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet.

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**7. HANDLING AND STORAGE**

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| <b>General Precautions</b>   | : Avoid breathing vapours or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.   |
| <b>Handling</b>              | : Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid contact with skin, eyes and clothing. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Bulk storage tanks should be diked (bunded). Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$ m/s until fill pipe submerged to twice its diameter, then $\leq 7$ m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Handle and open container with care in a well-ventilated area. |
| <b>Storage</b>               | : Vapours from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapour treatment system. Bulk storage tanks should be diked (bunded). Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.   |
| <b>Product Transfer</b>      | : Refer to guidance under Handling section.   |
| <b>Recommended Materials</b> | : For containers, or container linings use mild steel, stainless steel.   |

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- Unsuitable Materials** : Natural, butyl, neoprene or nitrile rubbers.
- Container Advice** : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.
- Additional Information** : Ensure that all local regulations regarding handling and storage facilities are followed.  
See additional references that provide safe handling practices for liquids that are determined to be static accumulators:  
American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity). CENELEC CLC/TR 50404 (Electrostatics – Code of practice for the avoidance of hazards due to static electricity).

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

#### Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
Toluene	ACGIH	TWA	20 ppm		
	IN OEL	TWA	100 ppm	375 mg/m3	
	IN OEL	STEL	150 ppm	560 mg/m3	

#### Biological Exposure Index (BEI)

Material	Determinant	Sampling time	BEI	Reference
Toluene	o-Cresol in urine	End of shift	0.5 mg/l	ACGIH (2003)
	Hippuric acid in urine	End of shift	1.6 g/g creatinine	ACGIH (2003)
	o-Cresol, with hydrolysis in Creatinine in urine	Sampling time: End of shift.	0.3 mg/g	ACGIH BEL (2011)
	toluene in Blood	Sampling time: Prior to last shift of work week.	0.02 mg/l	ACGIH BEL (2011)
	toluene in Urine	Sampling time: End of shift.	0.03 mg/l	ACGIH BEL (2011)

- Additional Information** : Skin notation means that significant exposure can also occur by absorption of liquid through the skin and of vapour through the eyes or mucous membranes.

- Exposure Controls** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended. Firewater monitors and deluge systems are recommended.

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<b>Personal Protective Equipment</b>	:	Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
<b>Respiratory Protection</b>	:	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN14387. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.
<b>Hand Protection</b>	:	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739, AS/NZS:2161) made from the following materials may provide suitable chemical protection: Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
<b>Eye Protection</b>	:	Chemical splash goggles (chemical monogoggles).
<b>Protective Clothing</b>	:	Chemical resistant gloves/gauntlets. Where risk of splashing or in spillage clean up, use chemical resistant one-piece overall with integral hood. Wear antistatic and flame retardant clothing.
<b>Monitoring Methods</b>	:	Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <a href="http://www.cdc.gov/niosh/">http://www.cdc.gov/niosh/</a> Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <a href="http://www.osha.gov/">http://www.osha.gov/</a> Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances, <a href="http://www.hse.gov.uk/">http://www.hse.gov.uk/</a> Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany. <a href="http://www.dguv.de/inhalt/index.jsp">http://www.dguv.de/inhalt/index.jsp</a> L'Institut National de Recherche et de Sécurité, (INRS), France <a href="http://www.inrs.fr/accueil">http://www.inrs.fr/accueil</a>
<b>Environmental Exposure Controls</b>	:	Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Information on accidental release measures are to be found in section 6.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Colourless Liquid.
Odour	: Aromatic
Odour threshold	: 1.74 ppm
pH	: Not applicable
Boiling point	: Typical 110 - 111 °C / 230 - 232 °F
Melting / freezing point	: Typical -95 °C / -139 °F
Flash point	: 4 °C / 39 °F (Abel)
Explosion / Flammability limits in air	: 1.2 - 7.1 % (V)
Auto-ignition temperature	: 480 - 536 °C / 896 - 997 °F (ASTM E-659)
Vapour pressure	: Typical 1 kPa at 0 °C / 32 °F Typical 3 - 3.5 kPa at 20 °C / 68 °F Typical 12 kPa at 50 °C / 122 °F
Specific gravity	: Data not available.
Density	: Typical 871 kg/m <sup>3</sup> at 15 °C / 59 °F
Water solubility	: 0.515 kg/m <sup>3</sup>
n-octanol/water partition coefficient (log Pow)	: 2.65
Kinematic viscosity	: 0.63 mm <sup>2</sup> /s at 25 °C / 77 °F
Vapour density (air=1)	: 3.1
Electrical conductivity	: Low conductivity: < 100 pS/m The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.
Dielectric constant	: Typical 2.4
Evaporation rate (nBuAc=1)	: 6.1 (DIN 53170, di-ethyl ether=1) 2 (ASTM D 3539, nBuAc=1)
Surface tension	: Typical 28.5 mN/m at 20 °C / 68 °F (ASTM D-971)
Molecular weight	: 92 g/mol
Decomposition temperature	: Data not available.

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**10. STABILITY AND REACTIVITY**

<b>Stability</b>	: Stable under normal conditions of use. Reacts violently with strong oxidising agents.
<b>Conditions to Avoid</b>	: Avoid heat, sparks, open flames and other ignition sources. Prevent vapour accumulation.
<b>Materials to Avoid</b>	: Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
<b>Sensitivity to Static Discharge</b>	: Yes, in certain circumstances product can ignite due to static electricity.

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### 11. TOXICOLOGICAL INFORMATION

<b>Basis for Assessment</b>	: Information given is based on product data.
<b>Acute Oral Toxicity</b>	: Low toxicity: LD50 >2000 mg/kg , Rat Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
<b>Acute Dermal Toxicity</b>	: Low toxicity: LD50 >2000 mg/kg , Rabbit
<b>Acute Inhalation Toxicity</b>	: Low toxicity: LC50 >20 mg/l / 4 hours, Rat Classified as harmful by the European Commission. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
<b>Skin corrosion/irritation</b>	: Irritating to skin.
<b>Serious eye damage/irritation</b>	: Moderately irritating to eyes (but insufficient to classify).
<b>Respiratory Irritation</b>	: Inhalation of vapours or mists may cause irritation to the respiratory system.
<b>Sensitisation</b>	: Not a skin sensitiser.
<b>Repeated Dose Toxicity</b>	: Central nervous system: repeated exposure affects the nervous system. Effects were seen at high doses only. Respiratory system: repeated exposure affects the respiratory system. Effects were seen at high doses only. Visual system: may cause decreased color perception. These subtle changes have not been found to lead to functional colour vision deficits. Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.
<b>Germ cell mutagenicity</b>	: Not mutagenic.
<b>Carcinogenicity</b>	: Not carcinogenic in animal studies.

Material	: Carcinogenicity Classification
Toluene	: ACGIH Group A4: Not classifiable as a human carcinogen.
Toluene	: IARC 3: Not classifiable as to carcinogenicity to humans.
Toluene	: GHS / CLP: No carcinogenicity classification

<b>Reproductive and Developmental Toxicity</b>	: Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility.
<b>Additional Information</b>	: Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest. Abuse of vapours has been associated with organ damage and death.

### 12. ECOLOGICAL INFORMATION

<b>Acute Toxicity</b>	
<b>Fish</b>	: Toxic: 1 < LC/EC/IC50 <= 10 mg/l
<b>Aquatic crustacea</b>	: Harmful: 10 < LC/EC/IC50 <= 100 mg/l
<b>Algae/aquatic plants</b>	: Practically non toxic: LL/EL/IL50 > 100 mg/l



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<b>Chronic Toxicity</b>	
<b>Fish</b>	: NOEC/NOEL > 1.0 - <=10 mg/l (based on test data)
<b>Aquatic crustacea</b>	: NOEC/NOEL > 1.0 - <=10 mg/l (based on test data)
<b>Mobility</b>	: Floats on water.
<b>Persistence/degradability</b>	: Readily biodegradable meeting the 10 day window criterion. Oxidises rapidly by photo-chemical reactions in air.
<b>Bioaccumulation</b>	: Does not bioaccumulate significantly.
<b>Other Adverse Effects</b>	: In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

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**13. DISPOSAL CONSIDERATIONS**

<b>Material Disposal</b>	: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.
<b>Container Disposal</b>	: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer.
<b>Local Legislation</b>	: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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**14. TRANSPORT INFORMATION****IMDG**

Identification number	UN 1294
UN proper shipping name	TOLUENE
Class / Division	3
Packing group	II
Marine Pollutant:	No

**IATA (Country variations may apply)**

UN number	: 1294
UN proper shipping name	: Toluene
Class / Division	: 3
Packing group	: II

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**15. REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EC Label Name : TOLUENE

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EC label/EC Number	:	203-625-9
EC Classification	:	Highly flammable. Harmful.
EC Annex I Number	:	601-021-00-3
EC Symbols	:	F Highly flammable. Xn Harmful.
EC 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.
EC Safety Phrases	:	S2 Keep out of 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.
<b>Chemical Inventory Status</b>		
AICS	:	Listed.
DSL	:	Listed.
INV (CN)	:	Listed.
ENCS (JP)	:	Listed. (3)-2
TSCA	:	Listed.
EINECS	:	Listed. 203-625-9
KECI (KR)	:	Listed. 97-1-298
KECI (KR)	:	Listed. KE-33936
PICCS (PH)	:	Listed.

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**16. OTHER INFORMATION**

## R-phrases(s)

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.

<b>SDS Version Number</b>	:	3.1
<b>SDS Effective Date</b>	:	11.01.2013
<b>SDS Revisions</b>	:	A vertical bar ( ) in the left margin indicates an amendment from the previous version.
<b>Uses and Restrictions</b>	:	Raw material for use in the chemical industry. Use only in industrial processes.
<b>SDS Distribution</b>	:	The information in this document should be made available to all who may handle the product
<b>Disclaimer</b>	:	This information is based on our current knowledge and is

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intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.