

ASCC (NZ) Pty. Ltd**MSDS Summary Information**

For further information : Please refer to the ASCC SDS

Issue: October, 2007

PRODUCT: Solvent 100**Other Names:** Aromatic hydrocarbon solvent**Uses:** Industrial chemical**UN No.** 1268**Dangerous Goods Class:** 3**Subsidiary Risk:** -**Packing Group:** III**HAZCHEM:** 3 [Y]

Hazardous Nature:	This product is classified as hazardous under HSNO criteria
Exposure Standards:	TEL (air): Not available; TWA : 25 ppm, 125 mg/m ³ , cumene (skin); 50 ppm, 217 mg/m ³ xylene STEL : 75 ppm, 375 mg/m ³ cumene (skin)
Environmental Standards:	EEL (air) : Not available

Physical Characteristics (Typical)		Section 9 of SDS
Appearance	Clear, colourless liquid	
Boiling Point/Range (°C)	154 - 181	
Flash Point (°C)	41	
Specific gravity/Density (g/ml @ 15°C)	0.875	
Chemical Stability	Stable at room temperature and pressure	
Reactivity	Oxidising agents, mineral acids, halogenated organic compounds	
Product Ingredients		Section 3 of SDS
1,2,4 Trimethyl benzene	95-63-6	30 - 35
Mesitylene	108-67-8	8 - 11
Propylbenzene and Isopropylbenzene (Cumene)	98-82-8	6 - 8
Xylene, mixed isomers	1330-20-7	< 2

For further ingredients information, please refer to the SDS

Hazardous Statements		Section 2 of SDS
H226 Flammable liquid and vapour H306 May be harmful if swallowed and enters airways H316 Causes mild skin irritation H320 Causes eye irritation	H355 Suspected of damaging fertility or the unborn child H363 May cause damage to organs through prolonged or repeated exposure H411 Toxic to aquatic life with long-lasting effects	

For further Hazard and Precautionary information, please refer to the SDS

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, e.g. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc.
HSNO Act	Hazardous Substance and New Organisms Act – limits and manages the transaction of hazardous substances in New Zealand and her territories.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name: Solvent 100
Other Names: Aromatic hydrocarbon
Chemical Family: Blended hydrocarbon
Molecular Formula: Not applicable
Recommended Use: Industrial chemical
Supplier: Australasian Solvents and Chemicals Company Pty. Ltd
Address: PO Box 8340, Symonds Street, Auckland, N.Z.
Telephone: 0800 754 767
Emergency phone: **CHEMCALL: 0800 243 622**
All other inquiries: 0800 754 767

2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications: 3.1C, 6.1E, 6.3B, 6.4A, 6.8B, 6.9B, 9.1B
Signal word: **WARNING**
Hazard Statements :
 H226 Flammable liquid and vapour H306 May be harmful if swallowed and enters airways
 H316 Causes mild skin irritation H355 Suspected of damaging fertility or the unborn child
 H320 Causes eye irritation H361 May cause damage to organs through prolonged or repeated exposure
 H411 Toxic to aquatic life with long lasting effects

Precaution Statements :
 P103 Read label before use P202 Do not handle until all safety precautions have been read and understood
 P201 Obtain special instructions before use P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
 P233 Keep container tightly closed P240 Ground container and receiving equipment
 P242 Use only non-sparking tools P241 Use explosion-proof electrical, ventilating and lighting equipment
 P264 Wash hands and exposed skin thoroughly after handling P243 Take precautionary measures against static discharge
 P273 Avoid release to environment P280 Wear protective gloves, protective clothing and eye protection

3. COMPOSITION : Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
1,2,4 Trimethyl benzene	95-63-6	30 - 35
Mesitylene	108-67-8	8 - 11
Propylbenzene and Isopropylbenzene (Cumene)	98-82-8	6 - 8
Xylene, mixed isomers	1330-20-7	< 2
Other ingredients determined not to be hazardous	various	40 - 50

4. FIRST AID MEASURES

For advice, contact National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.

Swallowed

If swallowed, do not induce vomiting. Keep at rest. Give a glass of water to drink. Seek immediate medical attention. Begin artificial respiration if the person is not breathing. Use mouth to nose rather than mouth to mouth.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush affected area with large amounts of water then wash with soap and water.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Seek immediate medical attention.

First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Medical Attention

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to lungs with the potential to cause chemical pneumonitis. General measures should be taken to control acidosis and maintain urine output.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media :

Dry chemical or foam

Hazards from combustion products:

Carbon dioxide and carbon monoxide

Precautions for fire fighters and special protective equipment:

Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3 [Y]

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimize the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE

Precautions for safe handling:

This product is FLAMMABLE. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material may accumulate static discharge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage:

Store in a cool, dry place away from direct sunlight. Do not pressurize, cut, heat or weld containers - residual vapours are flammable. This product is combustible and will fuel a fire in progress.

Incompatible materials:

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS : PERSONAL PROTECTION

Health Exposure Standards:

The following Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health Service , NZ Department of Labour for components in this substance:

	WES-TWA		WES-STEL	
Cumene (skin)	25 ppm	125 mg/m ³	75 ppm	375 mg/m ³
Xylene	50 ppm	217 mg m ³		

Biological limit values :

None established

Engineering Controls:

Ventilation:

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment:

Respiratory Protection: Where concentrations in air may exceed the limits described in the Health Exposure Standards, it is recommended to use a half-face filter mask to protect from over-exposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Boiling Point/Range	°C	154 - 181
Flash Point	°C	41
Density @ 15°C	g/ml	0.875
Vapour Pressure @ 20°C	kPa	0.278
Vapour Density @ 20°C	kPa	> 1
Autoignition Temperature	°C	Not available
Explosive Limits in Air	%	0.8 – 7
Viscosity	cSt	Not applicable
Volatiles	%	100
Solubility in Water	% w/w	< 1

The values listed are indicative of this product's physical and chemical properties.

For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable at room temperature and pressure.
- Conditions to avoid:** Sources of heat and ignition, open flames.
- Hazardous decomposition products:** No decomposition products except on burning. See "Fire Fighting Measures".
- Hazardous reactions:** Oxidising agents, mineral acids, halogenated organic compounds.

11. TOXICOLOGICAL INFORMATION**Acute Effects*****Ingestion***

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.

Eye Contact

This product may be irritating to eyes, but will not permanently damage the eye tissue.

Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking

Inhalation

This product is irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

Chronic Effects

This product contains < 2% xylene, mixed isomers. . ERMA NZ have classified xylene as 6.8B; suspected of damaging fertility or the unborn child.

1,2,4 Trimethyl benzene, propylbenzene, isopropylbenzene and xylene (mixed isomers) are classified by ERMA as 6.9B; may cause damage to organs through prolonged or repeated exposure. Target organs or systems are nervous and pulmonary system, blood and hematopoietic system.

Other Health Effects Information: None

Toxicological Information: None

12. ECOLOGICAL INFORMATION**Ecotoxicity:****Aquatic toxicity:**

Product is ecotoxic. Long term adverse effects to aquatic organisms are possible if continuous exposure is maintained.

Persistence/degradability:

Can degrade rapidly in air. Oxidizes rapidly by photo-chemical reactions in air. This product is expected to be removed in wastewater treatment. Based upon data for similar components or estimated data, this product is expected to biodegrade rapidly and be readily biodegradable according to OECD guidelines.

Mobility:

This product is highly mobile in soil and may contaminate groundwater.

Environmental Exposure Standards:

EEL (WATER):	Not set
EEL (SOIL)	Not set
EEL (SEDIMENTS)	Not set

13. DISPOSAL CONSIDERATIONS**Disposal Methods:**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration:

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1268	UN No.	1268	UN No.	1268
Proper Shipping Name	PETROLEUM DISTILLATES , N.O.S	Proper Shipping Name	PETROLEUM DISTILLATES , N.O.S	Proper Shipping Name	PETROLEUM DISTILLATES , N.O.S
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	3 [Y]	Hazchem	3 [Y]		

Dangerous Goods Segregation

This product is classified as a Dangerous Goods Class 9, packing group III. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:1999 Transport of Dangerous Goods on Land for information.

15. REGULATORY INFORMATION

Country/ Region: Australia, New Zealand

Inventory: AICS, NZCIL

Status: Listed

ERMA New Zealand Approval Code:

HSR002650 Solvent (Flammable) Group Standard, 2006

HSNO Controls: Codes: F2, F6, F11, F17, T1, T2, T3, T4, T5, T6, T7, E1, E2, E6, E8, P1, P3, P13, PG3, P15, D2, D4, D5, D6, D7, D8, EM1, EM4, EM6, EM7, EM8, EM9, EM10, EM11, EM12, EM13, I1, I3, I5, I8, I9, I11, I13, I16, I18, I19, I21, I25, I28, I29, I30, GN35A.

Refer www.ermanz.govt.nz for information on Controls.

16. OTHER INFORMATION

Reasons for Issue: Updating HSNO information

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety & Health

NOHSC: National Occupational Health and Safety Council

NZCI: New Zealand Chemical Inventory

REL: Recommended Exposure Limits

References:

Supplier Material Safety Data Sheets

Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Australasian Solvents and Chemicals Company (NZ) Pty. Ltd.