SYDNEY SOLVENTS PTY LTD
UNIT 3/10 PRODUCTION PLACE
JAMISONTOWN NSW 2750
WWW.SYDNEYSOLVENTS.COM.AU
02 4722 5060

FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS

Issue: OCTOBER 16

PRODUCT: Solvesso™ 150
Other Names: Environmentally Hazardous Substance, Liquid, N.O.S.

Uses: Industrial solvent: paint and ink manufacture, agricultural chemicals

UN No.	3082
Dangerous Goods Class	9
Subsidiary Risk	None
Pack Group	III
Hazchem	•3Z
Poison Schedule	5

Hazardous Nature:	This product is classified as hazardous under Australian GHS criteria
Hazardous Categories:	Flammable Liquids: 4; Carcinogen: Category 2; Aspiration Toxicant: 1; Skin Corrosion/Irritation: 3; Specific Target Organ Toxicity (narcosis): 2; Acute Aquatic Toxicant: 2; Chronic Aquatic Toxicant: Category 2
Exposure Standards:	TWA: 100 mg/m^3 (15 ppm): STEL: None specified, consider: 250 mg/m^3

Physical Characteristics (Typical) — Section 9 of SDS

Appearance	Clear, slightly yellow liquid
Boiling Point/ Range (°C):	181 – 211
Flash Point (°C):	68
Specific Gravity/ Density (g/ml @ 15°C):	0.885
Chemical Stability:	Stable at room temperature and pressure

Product Ingredients — Section 3 of SDS

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100
Contains: Naphthalene	91-20-3	< 10
1,2,4 Trimethyl benzene	95-63-6	< 5

For further ingredients information, please refer to the full SDS.

GHS Pictograms — Section 2 of SDS

Hazard Statements — Section 2 of SDS

H227: Combustible liquid
H304: May be fatal if swallowed and enters airways
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer

For further Risk and Safety information, please refer to the full SDS.

DEFINITIONS

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, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
Poisonous Substance	Products that are classified under the poisons schedule are a poisonous substance. The proportion of the poison in the product will determine its numerical classification.
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. Materials are not hazardous substances if they pose risks such as potential for misuse, like flammability, or explosions when heated and ignited.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name:	**Solvesso™ 150**
Other Names:	Environmentally Hazardous Substance, Liquid, N.O.S.
Chemical Family:	Aromatic hydrocarbon
Recommended Use:	Industrial solvent: paint and ink manufacture, agricultural chemicals
Supplier:	SYDNEY SOLVENTS PTY LTD
ABN:	51 104 642 695
Street Address:	3/10 PRODUCTION PLACE JAMISONTOWN NSW 2750
Telephone:	02 4722 5060
Fax:	02 4722 5070
Emergency phone:	**CHEMCALL: 1800 127 406**
All other inquiries:	1800 60 50 40

2. HAZARDS IDENTIFICATION

Health Hazard Classification

This product is classified as hazardous under Australian GHS criteria

Hazard Categories

Flammable Liquids: 4; Carcinogen: Category 2; Aspiration Toxicant: 1; Skin Corrosion/Irritation: 3; Specific Target Organ Toxicity (narcosis): 2; Acute Aquatic Toxicant: 2; Chronic Aquatic Toxicant: Category 2

Hazardous Statement

Harmful to aquatic life with long-lasting effects

GHS Pictograms



Hazard Statements

H227: Combustible liquid

H304: May be fatal if swallowed and enters airways

H336: May cause drowsiness or dizziness

H351: Suspected of causing cancer

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

P301+312+101: IF SWALLOWED: Call a POISON CENTER/doctor, if you feel unwell, and have product container or label at hand.

P273: Avoid release to the environment.

Dangerous Goods Classification 9

Poisons Schedule 5

Signal Word Danger

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100

Chemical Ingredient	CAS No.	Proportion (%v/v)
Contains: Naphthalene	91-20-3	< 10
1,2,4 Trimethyl benzene	95-63-6	< 5

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

First Aid facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

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 firefighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Alcohol resistant foam, or if unavailable, 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:

•3Z

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 minimise 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 combustible. 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 will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage

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

Incompatible materials

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: 100 mg/m^3 (15 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: None specified, consider: 250 mg/m^3, which is the maximum allowable exposure concentration at any time.

Biological limit values

Not available

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 National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure 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 (e.g. PVC) be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, slightly yellow liquid
Boiling Point/ Range	°C	181 – 211
Flash Point	°C	68
Density @ 15°C	g/ml	0.885
Vapour Pressure @ 20°C	kPa	0.1
Explosive Limits (LEL – UEL)	%	0.8 – 7.0
Vapour Density @ 20°C	kPa	> 1.00

Property	Unit of measurement	Typical value
Autoignition Temperature	°C	> 450
Viscosity @ 25°C	cSt	1.26
Percent Volatiles	%	100
Solubility with Water	% w/w	< 0.10

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

Carbon monoxide, carbon dioxide, and other organic complexes on incomplete burning or oxidation

Hazardous reactions

Oxidizing agents, mineral acids, halogenated organic compounds

Hazardous Polymerisation

Will not occur

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 is 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. Naphthalene, one ingredient, is easily absorbed into the skin on contact and may result in symptoms of overexposure, similar to ingestion.

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 naphthalene. Exposure to high concentrations of naphthalene may cause destruction of red blood cells, anaemia, and cataracts. Evidence of cancer in animals caused by exposure to naphthalene has not been found to be relevant in huma

Other Health Effects Information

Persons with pre-existing skin conditions are likely to be sensitive to this product with prolonged or repeated exposure.

Toxicological Information

Oral LD_{50}: Oral (rat): 5ml/kg; Naphthalene: (rat): 490 mg/kg

Dermal TC_{Lo}: Inhal (rat): LC_{50}: > 4688 mg/m^3/4hr (vapour)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity

Fish Toxicity (rainbow trout, goldfish, bluegill): LC_{50}(96hr): Naphthalene: Bluegill: 31026 µg/L; Pink

	Salmon: 900 µg/L; Crimson Spotted rainbow trout: 315 µg/L
Daphnia Magna EC_{50} (24 hr):	Not available
Blue-green algae (Toxicity threshold 7-8 days):	No data available
Green algae (Toxicity threshold 7-8 days):	Naphthalene: EC_{50}: 25000 µg/L

Persistence/ degradability

This product will evaporate and commence degradation on exposure to light and air.

Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater

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.	3082	UN No.	3082	UN No.	3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.	Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.	Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
DG Class	9	DG Class	9	DG Class	9
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	•3Z	Hazchem	•3Z	Hazchem	•3Z

Dangerous Goods Segregation

This product is classed as Dangerous Goods Class 9, packing group III. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

15. REGULATORY INFORMATION

Country/ Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: 5

16. OTHER INFORMATION

Reasons for Issue: Amalgamated supplier changes in all sections

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

GHS: Global Harmonised System

References:

- Supplier Material Safety Data Sheets
- http://chem.sis.nlm.nih.gov/chemidplus (February 16)
- http://hsis.ascc.gov.au/SearchHS.aspx (February 16)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (February 16)
- *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 Pty. Ltd.