



AUSTRALASIAN SOLVENTS AND CHEMICALS COMPANY PTY LTD.

PO Box 8340, Symonds Street, Auckland NZ
Free Call: 0800 754 767
CHEMCALL: 0800 243 622
www.ascc.net.au

SDS Summary Information
For further information: Please refer to the ASCC SDS

Issue: June, 2014

| | |
|---|---------------------------------|
| PRODUCT: White Spirits | UN No. 1300 |
| Other Names: Solvent 3040, Low Aromatic White Spirit (LAWS) | Dangerous Goods Class: 3 |
| Uses: Industrial solvent | Subsidiary Risk: - |
| | Packing Group: III |
| | HAZCHEM: 3 Y |

| | |
|---------------------------------|---|
| Hazardous Nature: | This product is classified as hazardous under HSNO criteria |
| Exposure Standards: | White spirits (Stoddard solvent): TWA : 100 ppm (525 mg/m ³) Ethylbenzene: TWA : 100 ppm (434 mg/m ³) STEL: 125 ppm (543 mg/m ³) |
| Environmental Standards: | EEL (air) : Not available |

| Physical Characteristics (Typical) | Section 9 of SDS |
|--|---|
| Appearance | Clear, colourless liquid |
| Boiling Point/Range (°C) | 162 - 192 |
| Flash Point (°C) | 41 - 42 |
| Specific gravity/Density (g/ml @ 15°C) | 0.783 |
| Chemical Stability | Stable at room temperature and pressure |
| Reactivity | Oxidising agents, mineral acids, peroxides, halogenated organic compounds |

| Product Ingredients | Section 3 of SDS | |
|--------------------------------------|------------------|-----------|
| Low aromatic hydrocarbon solvent | 64742-82-1 | 100 |
| Contains - 1,2,4 - Trimethyl benzene | 95-63-6 | 2.0 - 9.0 |
| - 1,3,5 - Trimethyl benzene | 108-67-8 | 0.6 - 3.0 |
| - Ethylbenzene | 100-41-4 | ≤ 0.3 |

For further ingredients information, please refer to the SDS

| Hazardous Statements | Section 2 of SDS |
|---|--|
| H226 Flammable liquid and vapour | H355 Suspected of damaging fertility or the unborn child |
| H306 May be harmful if swallowed and enters airways | H363 May cause damage to organs through prolonged or repeated exposure |
| H316 Causes mild skin irritation | H411 Toxic to aquatic life with long-lasting effects |
| H353 Suspected of causing cancer | |

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: White Spirits
Other Names: Blended hydrocarbon,
Petroleum derived complex substance
Chemical Family: Aliphatic, cycloparaffinic, low aromatic hydrocarbon
Molecular Formula: Not applicable
Recommended Use: Industrial solvent
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, 6.8B, 6.7B, 6.9B, 9.1B

Signal word: **DANGER**



Hazard Statements:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H316 Causes mild skin irritation.
H351 Suspecting of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Prevention Statements:

P102 Keep out of reach of children.
P103 Read label before use.
P201 Obtain special instruction before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground container and receiving equipment.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe vapours.

- P273 Avoid release to environment
 P280 Wear protective gloves, protective clothing and eye protection
 P281 Use personal protective equipment as required.

Response Statements

- P101 If medical advice is needed, have product container or label at hand.
 P314 Get medical advice if you feel unwell.
 P308 + P313 IF exposed or concerned: Get medical advice.

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
 P331 Do NOT induce vomiting.

- P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 P332 + P313 If skin irritation occurs: Get medical advice.

- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTRE or doctor if you feel unwell.

- P370 + P378 In case of fire: Stop leak if safe to do so.

- P391 Collect spillage.

Storage Statements

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

Disposal Statements

- P501 Dispose of product and container in accordance with local regulations.

3. COMPOSITION : Information on Ingredients

| Chemical Ingredient | CAS No. | Proportion (%w/w) |
|------------------------------------|------------|-------------------|
| Low aromatic hydrocarbon | 64742-82-1 | 100 |
| Contains - 1,2,4 Trimethyl benzene | 95-63-6 | 2.0 – 9.0 |
| - 1,3,5 -Trimethyl benzene | 109-67-8 | 0.6 – 3.0 |
| - Ethylbenzene | 100-41-4 | ≤ 0.3 |

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. Seek immediate medical attention. Begin artificial respiration if the person is not breathing. Use mouth to nose rather than mouth to mouth. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

Skin Contact

Date of Issue: 27 June, 2014
 Date of Review: June, 2019

page 3 of 10
 Emergency Number: CHEMCALL: 0800 243 622

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

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 but preferably 30 minutes. Remove contact lenses, if present and easy to do, after 5 minutes and continue flushing. Get medical attention if irritation (redness, burning, blurring or swelling) 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 medical attention if rapid recovery does not occur.

First Aid facilities

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

Medical Attention

Treat according to symptoms. Causes central nervous system depression. Prolonged or repeated contact may result in dermatitis. Avoid gastric lavage unless airway protected: 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

Flammable product. 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. Wear personal protection equipment. Prevent extinguishing media from escaping to drains and waterways. Product will float and be reignited on surface water. Vapour heavier than air, spreads along ground and instant ignition is possible.

Suitable extinguishing media: Foam, water spray or fog. Dry chemical, carbon dioxide, sand or earth are suitable for small fires. Do not use water jet. Keep adjacent containers cool by spraying with water.

Hazards from combustion products: Complex mixtures and may include carbon dioxide, carbon monoxide and other organic compounds.

Precautions for fire fighters and special protective equipment: Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3Y

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Ensure ignition sources removed or eliminated. Wear personal protective equipment. Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Vapour may form explosive mixture with air. 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

For small spills (less than 1 drum), transfer by suitable mechanical pump to labelled, sealable container for recovery or disposal. Allow residue to evaporate or otherwise absorb with appropriate material to be removed and disposed of safely. Remove contaminated soil for disposal.

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).

Avoid breathing of or contact with the product. Wear personal protective equipment. Use only in well-ventilated area. Wash hands thoroughly after handling.

Conditions for safe storage:

Store in a diked (bunded), cool, dry place away from direct sunlight. Do not pressurize, cut, heat or weld

containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress. For containers or container innings, use mild steel or stainless steel. For container paints use epoxy paint or zinc silicate paint.

Incompatible materials:

Natural Rubber, Butyl Rubber, Nitrile rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS : PERSONAL PROTECTION

Health Exposure Standards:

Workplace Exposure Standards (WES), 2013, have been set for this product or a component in this substance:

| | WES-TWA | WES-STEL |
|----------------------------------|--------------------------------|------------------------------|
| White spirits (Stoddard solvent) | 100 ppm; 525 mg m ³ | - |
| Ethyl benzene | 100 ppm; 434 mg m ³ | 125ppm; 543 mgm 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 (nitrile rubber) gloves be worn or for incidental contact, PVC or neoprene gloves..

9. PHYSICAL AND CHEMICAL PROPERTIES

| Property | Unit of measurement | Typical value |
|---|---------------------|--------------------------|
| Appearance | - | Clear, colourless liquid |
| Odour | | Paraffinic |
| Boiling Point/Range | °C | 162 - 192 |
| Flash Point | °C | 41 – 42 (typical) |
| Density @ 15°C | g/ml | 0.783 |
| Vapour Pressure @ 20°C | Pa | 370 |
| @ 0 °C | | 110 |
| @ 50 °C | | 1800 |
| Vapour Density @ 20°C | kPa | Not available |
| Autoignition Temperature [method ASTM E-659] | °C | 296 |

| | | |
|--|-------|-------------------------------------|
| Explosive Limits in Air | % | 0.7 – 6.5 |
| Viscosity | cSt | Not applicable |
| Volatiles | % | 100 |
| Solubility in water | % w/w | Insoluble |
| Solubility in other solvents | | Miscible in aromatic and aliphatics |
| n-octanol/water partition coefficient (log K _{OW}) | | 3.7 – 6.7 |
| Evaporation rate (nBuAc = 1) | | 0.16 |
| Volatile Organic Content (VOC), % | | 85 |

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. |
| Materials to avoid: | Oxidising agents. |
| Hazardous decomposition products: | No decomposition products except on burning. See "Fire Fighting Measures". |

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 moderately irritating to the skin. With prolonged exposure may result in dryness and/or cracking and may lead to dermatitis.

Inhalation

This product is irritating to the respiratory tract with symptoms of coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever. Inhalation of vapours may cause drowsiness and dizziness. Exposure to large concentrations over an extended period of time will result central nervous system (CNS) depression with symptoms of headache, nausea, and lack of co-ordination. Auditory system effects may include temporary hearing loss and/or ringing in the ears.

Chronic Effects

This product contains ≤ 0.3 % ethyl benzene. EPA NZ have classified this compound as a 6.7B (suspected of causing cancer) and 6.8B (suspected of damaging fertility or the unborn child). The white spirit product is also assigned these hazardous classifications when the ethyl benzene is present at ≥ 0.1 % w/w.

1,2,4 Trimethyl benzene is classified by EPA as 6.9B (may cause damage to organs through prolonged or

| Proper Shipping Name | TURPENTINE SUBSTITUTE | Proper Shipping Name | TURPENTINE SUBSTITUTE | Proper Shipping Name | TURPENTINE SUBSTITUTE |
|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|
| 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 | | |

Product is classified as a Marine Pollutant.

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 5433:2012 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country/ Region: Australia, New Zealand

Inventory: AICS, NZIoC

Status: Listed

EPA New Zealand Approval Code:

HSR002652 Solvent (Flammable, Toxic [6.7]) Group Standard, 2006

HSNO Controls: Refer www.epa.govt.nz for information on Controls.

16. OTHER INFORMATION

Date of Issue: 27th June 2014

Reasons for Issue: 5-year review of Safety Data Sheet.

Replaces: Safety Data Sheet dates 24 August 2009.

Abbreviations:

AICS Australian Inventory of Chemical Substances
b.w. Body weight



Safety Data Sheet White Spirits

| | |
|--------|--|
| CAS No | Chemical Abstracts Number |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances & New Organisms |
| IARC | Agency for Research on Cancer |
| NZIoC | New Zealand Inventory of Chemicals |
| OEL | Occupational Exposure Limit |
| ppm | Parts per million of vapour or gas in air (by volume) at 25 0C at atmospheric pressure |
| STEL | Sort Term Exposure Limit (15 minutes) |
| TWA | Time Weighted Average (8 hour period) |
| WES | Workplace Exposure Standard |

References:

Supplier Material Safety Data Sheets
EPA chemical database; www.epa.govt.nz

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.

END OF SAFETY DATA SHEET