

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2018



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: White Spirits
OTHER NAMES: Air Dry Solvent (ADS) Low Aromatic White Spirit, Stodard Solvent

Dangerous Goods Class 3, UN No 1300.
Subsidiary Risk : n/a
Packing Group III
Hazchem : 3Y

SUPPLIER : Econoclean (2004) Ltd
ADDRESS: 5 Atuaroa Ave, Te Puke
PHONE : 07 573 7207,

EMERGENCY PHONE: **111 and ask for fire Service**
Chemcall 0800 243 622.

OTHER CALLS: **0800 764 766** National Poisons Centre Dunedin

CHEMICAL NAME: Blended Hydrocarbon
CHEMICAL FAMILY: Aliphatic, cycloparaffinic, low aromatic hydrocarbon
CHEMICAL FORMULA: Not Applicable

PRODUCT USE: Industrial Solvent.
PREPARED BY: Jack van Selm, Econoclean.

SECTION 2: HAZARD 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

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 Suspected 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 instructions 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 (0800 764 766) 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 POISON CENTRE (0800 764 766) 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

Information specific to the use of this product in Econoclean Parts Washers:

When hot work (in particular grinding) is being carried out in the vicinity of the wasbath always make sure that the lid of the bath is closed.

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SECTION 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	2.00 – 9.00 %
- 1,3,5 Trimethyl Benzene	109-67-8	.60 – 3.00 %
- Ethylbenzene	100-41-4	Less than 0.3 %

Exposure Standards:	White Spirits (Stodard solvent); TWA : 100 ppm (525 mg/m3) Ethylbenzene TWA : 100 ppm (434 mg/m3) STEL: 125ppm (543 mg/m3) TWA = time weighted average over 8 hr workday. STEL= Short term exposure limit
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SECTION 4: FIRST AID MEASURES

Swallowed:

NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK OR ATTEMPT TO INDUCE VOMITING.

If person is unconscious, rinse mouth out with water ensuring that mouth wash is not swallowed. Give about 250ml (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek URGENT medical attention.

Skin:

Remove contaminated clothing and wash thoroughly with soap and water. Use water alone, if soap is unavailable. Apply a moisturising hand cream, if available. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

Eyes:

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation (redness, burning, blurring or swelling) persists.

Inhalation:

Remove to fresh air. Keep warm and at rest. If breathing is laboured, hold in a half upright position (this assists respiration). Apply artificial respiration if breathing has stopped. Seek URGENT medical attention for all but the most minor cases of exposure.

Advice to Doctor:

Because of the risk of aspiration, gastric lavage should only be undertaken after endotracheal intubation.

Safety Precautions:

Eye wash station, safety shower. Good occupational work

SECTION 5: FIRE-FIGHTING MEASURES

HAZCHEM CODE:

3 [Y]

General Guidelines:

Shut off product that may "fuel" a fire if safe to do so. Allow trained personnel to attend a fire in progress. Provide fire fighters with this MSDS.

Prevent extinguishing media from escaping to drains and waterways

Extinguishing Media:

Use foam, powder, CO2 to extinguish fire

Special Fire Fighting Procedures:

Fire fighters should wear full protective clothing and self contained breathing apparatus operated in positive pressure mode. Used water spray to cool fire exposed containers. Do not discharge extinguishing water into aquatic environment. Do not use water jets.

Unusual fire and explosion hazards:

This product is flammable . Vapours are heavier than air and will travel to low level areas e.g sumps, drains etc. and could cause flashback. Precautions should be taken to eliminate the build up of explosive mixtures.

Hazardous decomposition products

Combustion products include carbon monoxide and carbon dioxide..

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental release measures (on land):

Wear suitable PPE and clothing to minimize exposure.

Eliminate sources of ignition.

Stop leak, contain spill using sand or earth, prevent liquid from entering sewers, watercourses, or low-lying areas.

Warn occupants of downwind areas of possible fire and explosion hazard.

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.

Where possible recover spilt product using an air driven pump, a certified explosion proof pump or hand pump.

Contaminated product can be returned to Econoclean for processing.

Accidental release measures (on water):

As above but confine spill using floating booms, remove product from water surface by skimming or with suitable absorbent material.

Consult Econoclean to arrange suitable disposal of contaminated liquid.

SECTION 7: HANDLING AND STORAGE

Precautions fo safe handling :

Open containers cautiously as content may be under pressure. Use only in well ventilated area. Do not store or use in confined spaces. (Do not enter such areas without respiratory protection or until the atmosphere has been checked. Keep tanks covered and containers sealed when not in use. Ensure electrical continuity to earth by bonding and earthing all equipment. Avoid splash filling. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do not pressurize, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. when dealing with this product.

Protection should be used in order to lessen the possibility of skin and eye contact. It is essential that all who come into contact with this material maintain high standards of personal hygiene. e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage:

Store in a cool, dry, well ventilated area away from sources of ignition, oxidizing agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. This product should be stored in banded area. Inspect regularly for damage or leaks. Always keep in containers of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Do not store more than three pallets high. Storage facilities should meet relevant AS/NZ standards and EPA NZ guidelines.

Storage Temperature:

Ambient.

Recommended Engineering Materials:

Tanks and piping, carbon steel or stainless steel. Coatings epoxy paint or zinc silicate paint.

Unsuitable materials:

Rubber, butyl or nitrile rubbers, EPDM, polystyrene..

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Health Exposure Standards:

Refer to [page 3 section 3](#) of this MSDS.

Ventilation:

Provide sufficient ventilation to keep airborne levels below exposure limit. Where vapours or mists are generated particularly in enclosed areas, natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS/NZS 60079 for wiring requirements.

Respiratory Protection:

Where engineering controls can not be relied upon to keep airborne levels to below exposure limits a suitable respiratory protective device must be worn. Such devices shall be used and maintained in line with relevant regulations.

Eye Protection:

Safety glasses with side shields, goggles or full face shield shall be used when handling this product.

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Skin Protection:

Chemical resistant gloves must be used when handling this product.

Other Protective Clothing and Equipment:

Wear appropriate clothing such as overalls in combination with a chemical resistant apron.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear colourless liquid

ODOUR: Paraffinic

BOILING POINT: 162 -192C

SOLUBILITY IN WATER: Insoluble

SOLUBILITY IN ORGANIC SOLVENTS: Aromatics, miscible. Aliphatics miscible

DENSITY: 0.78 AT 15C

PH : Not available

VAPOUR PRESSURE: 0.43 kPa at 15C

VAPOUR DENSITY (AIR = 1) : 4.57 AT 15C

EVAPORATION RATE : 0.16

VOLATILE COMPONENT : 100 %

FLASH POINT : 41- 42 C

AUTO-IGNITION TEMPERATURE : 296 C

FLAMMABLE LIMITS LOWER (LEL): 0.7 % Volume

FLAMMABLE LIMITS UPPER (HEL): 6.5 % Volume

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable at room temperature and pressure.

CONDITIONS TO AVOID : Source of heat and ignition, open flames

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No decomposition products except on burning.

HAZARDOUS REACTIONS : with oxidizing agents

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL Information.

1,2,4 Trimethyl Benzene

LD50 (Oral, rat) > 3280 mg/kg

Inhalation LC50 > near saturated vapour concentration / 4hrs ; 18mg/L

INHALATION:

May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, nausea and vomiting. Exposure to high concentrations over an extended period of time will result in central nervous system (CNS) depression with symptoms of headache, nausea, and lack of coordination. Auditory system effects may include temporary hearing loss and/or ringing in the ears.

INGESTION:

Harmful : may cause lung damage if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting. Aspiration into the lungs may result in chemical pneumonitis.

SKIN:

May cause redness, itching and irritation. Prolonged contact with skin may cause defatting effect causing dryness and cracking.

EYE:

Mildly irritating to the eyes, but will not permanently damage eye tissue.

CHRONIC EFFECTS:

This product contains up to 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 ethyl benzene is present at concentrations equal or greater than 0.1% w/w. 1,2,4 Trimethyl benzene is classified by EPA as 6.9B (may cause damage to organs through prolonged or repeated exposure) and at a concentration of equal or greater than 1%. This also means white spirit has the same hazardous classification.

Other Health Effects Information:

Prolonged or repeated exposure to high concentrations may result in temporary hearing loss and/or ringing in the ears. Not expected to be mutagenic. Any foetotoxicity effects in animals are at doses that are maternally toxic. Not expected to impair fertility.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment if continuous exposure is maintained.

PERSISTENCE/BIODEGRADIBILITY :

Readily biodegradable. Oxidises rapidly by photochemical reactions in air. This product is expected to be removed in wastewater treatment. Expected to be biodegradable. Not expected to significantly bioaccumulate.

MOBILITY:

Floats on water. Will evaporate to air if released to water. This product is highly mobile in soil and may contaminate ground water.

Environmental Exposure Standards: Not set

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Empty packaging should be taken for recycling, recovery or disposal through a suitable 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 council sewer, stormwater drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Proper Shipping Name: Turpentine Substitute.
DG Class: 3
UN Number : 1300
Packing Group: III
HAZCHEM : 3Y

Marine Transport:

Proper Shipping Name: Turpentine Substitute.
DG Class: 3
UN Number: 1300
Packing Group: III
HAZCHEM : 3Y

Air Transport :

Proper Shipping Name: Turpentine Substitute
Hazard Class: 3
UN Number: 1300
Packing Group: III
HAZCHEM : 3Y

PRODUCT IS CLASSIFIED AS A MARINE POLUTANT .

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.



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SECTION 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.GOV.TZ for information on controls.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION:

This MSDS for white spirits is the result of a comprehensive review of the document issued by Econoclean(2004)Ltd in 2013.

This MSDS was prepared using information from supplier of this product and data available in the public domain. The 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 use and storage of this type of product.

For further information contact Econoclean(2004)ltd

Review date for this MSDS is 01/02/2023

End of MSDS