

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2013

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: White Spirits

SYNONYMS: 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: 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	Leas 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 3: HAZARD IDENTIFICATION

Product is classified as hazardous according the New Zealand HSNO Act, 1996

HSNO Classifications: 3.1C, 6.1E, 6.3B, 6.8B, 6.7B, 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

H353 Suspected of causing cancer

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2013

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

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
P260 Do not breathe vapours
P243 Take precautionary measures against static discharge
P273 Avoid release to environment
P280 Wear protective gloves, protective clothing and eye protection

Acute Effects:

SWALLOWED:

May cause symptoms of stomach pain, nausea and vomiting. Ingestion of large doses may cause unconsciousness. If vomiting occurs after ingestion, small droplets of the liquid may enter the lungs (aspiration) with the risk of chemical pneumonia being induced.

EYE

Liquid may cause moderate to severe eye irritation, vapour is irritating.

SKIN:

Contact with the product may cause defatting and contribute to dermatitis.

INHALED:

Inhalation may cause headache, nausea and dizziness. Higher concentrations may cause unconsciousness and coma. Death may result from severe and continued over-exposure.

CHRONIC EFFECTS:

Inhalation and ingestion are the routes of entry into the body. The product defats the skin and prolonged or repeated contact may contribute to dermatitis.

Medium aliphatic petroleum solvent: TCLo (inhaled, human);
600mg/m³ /8H: LC50 (inhaled, rat): 3400ppm/4H: Eye (human);
800ppm/15min: irritant effect.

CARCINOGENICITY

No experimental animal data has been reported concerning the carcinogenic properties of white spirit.

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.

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.

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2013

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:

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.

SECTION 7: HANDLING AND STORAGE

Precautions for 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 bunded 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.

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2013

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 1 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.

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

SPECIFIC GRAVITY: 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

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2013

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

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

LD50 (Oral, rat) > 2000 mg/kg

LD50 (Dermal, rat) > 2000 mg/kg.

Inhalation LC > near saturated vapour concentration / 4hrs

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.

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.

CHRONIC EFFECTS:

Prolonged and repeated skin contact may cause dermatitis due to defatting effect.

REPRODUCTIVE TOXICITY:

Causes fetotoxicity in animals at doses which are maternally toxic. Not expected to impair fertility.

MATERIAL SAFETY DATA SHEET

White Spirits

FILE REF.: econoclean msds

MSDS DATE: 01/02/2013

MUTAGENICITY:

Not expected to be mutagenic.

CARCINOGENICITY:

IARC has classified ethyl benzene as a "possible human carcinogen" (group 2B)

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PERSISTENCE/BIODEGRADABILITY :

Readily biodegradable. Oxidises rapidly by photo chemical reactions in air.

MOBILITY:

Floats on water.

BIOACCUMULATIVE POTENTIAL:

Has the potential to bioaccumulate.

INFORMATION ON ECOLOGICAL EFFECTS :

Acute toxicity;

Fish, harmful, LC/EC/IC50: 10 - 100mg/l

Aquatic invertebrates, harmful: LC/EC/IC50: 10 – 100mg/l.

Algae, Toxic: LC/EC/IC50 1 – 10mg/l.

Microorganisms:Expected to be harmful : LC/EC/IC50 10 – 100mg/l.

ENVIRONMENT PROTECTION:

Do not allow product to enter drains, waterways or sewers

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.

MATERIAL SAFETY DATA SHEET

White Spirits

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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 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 5433:2007 Transport of Dangerous Goods on Land for information.

SECTION 15: REGULATORY INFORMATION

Country Region : Australia / New Zealand.

Inventory: AICS,NZCIL.

Status: Listed

ERMA New Zealand Approval Code:

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

HSNO Default controls:

Codes : F2,6,11,17. T1,2,3,4,5,6,7. E1,2,6,8. P1,3,13. PG3, P15. D2,4,5,6,7,8. EM1,4,6,7,8,9,10,11,12,13. I1,3,5,8,9,11,13,16,18,19,21,25,28,29,30. GN35A.

Refer WWW.EPA.GOV.TZ for information on controls.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION:

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 01/02/2018

End of MSDS