

# MATERIAL SAFETY DATA SHEET

FILE REF.: econoclean

msds **Solvent D60**

MSDS DATE: 01/08/2013

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: Solvent D60  
SYNONYMS: De-aromatised Hydrocarbons.

Dangerous Goods Class 3, UN No 1268.  
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: Solvent Naphta (Petroleum) Medium AliphaticBlended 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	64742-88-7	100 %

Exposure Standards:	As for White Spirits (Stodard solvent); TWA : 100 ppm ( 525 mg/m3) TWA = time weighted average over 8 hr workday.
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## SECTION 3: HAZARD IDENTIFICATION

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

HSNO Classifications: 3.1D, 6.1E, 6.3B, 9.1B  
Signal word: WARNING

Hazard Statements :  
**H227** Combustible liquid  
**H305** May be harmful if swallowed and enters airways.  
**H316** Causes mild skin irritation  
**H411** Toxic to aquatic life with long lasting effects

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## Precaution Statements :

**P103** Read label before use

**P104** Read Safety Data Sheet 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

**P241** Use explosion-proof electrical, ventilating and lighting equipment

**P242** Use only non-sparking tools

**P243** Take precautionary measures against static discharge

**P273** Avoid release to environment

**P280** Wear protective gloves, protective clothing and eye protection.

## Acute Effects:

### SWALLOWED:

Harmfull: may cause lung damage if swallowed..

### EYE

Vapours may be irritating to the eye

### SKIN:

May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking.

### INHALED:

Vapours expected to be slightly irritating . Vapours may cause drowsiness and dizziness.

### CHRONIC EFFECTS:

Possibility of organ or organ system damage from prolonged exposure, see section 1 for details. Target organ(s):Cardiovascular system.Central nervous system (CNS)

### SIGNS AND SYMPTOMS:

Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat,coughing, and/or difficulty breathing. Breathing of high vapour concentrationsmay cause central nervous system (CNS) depression resulting in dizziness, light headedness,headache, nausea and loss of coordination. Continued inhalation may result I unconsciousness and death. Skin irritation sign and symptoms may include a burning sensation, redness, swelling and/or blurred vision. If material enters lungs, signs and symptoms may includecoughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

### AGGRAVATED MEDICAL CONDITION:

Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Respiratory system. Central nervous system(CNS), skin, eyes.

### INFORMATION SPECIFIC TO THE USE OF THIS PRODUCT 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 4: FIRST AID MEASURES

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### 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

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## SECTION 5: FIRE-FIGHTING MEASURES

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### 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:

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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..

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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### **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.

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## **SECTION 7: HANDLING AND STORAGE**

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### **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 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.

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## **Storage Temperature:**

Ambient.

## **Recommended Engineering Materials:**

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

## **Unsuitable materials:**

Avoid prolonged contact with natural, butyl or nitrile rubbers.

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## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **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.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Clear colourless liquid

**ODOUR:** Hydrocarbon

**BOILING POINT:** 179 – 214 C

**SOLUBILITY IN WATER:** Insoluble

**SOLUBILITY IN ORGANIC SOLVENTS:** Aromatics, miscible. Aliphatics miscible

**SPECIFIC GRAVITY:** 0.78 to 0.81 AT 15C

**PH :** Not available

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**VAPOUR PRESSURE:** 0.03 – 0.093 kPa at 0 C

**EVAPORATION RATE :** 0.04 (ASTM D3539, nBuAc=1)

**FLASH POINT :** 61 to 66 C

**AUTO-IGNITION TEMPERATURE :** 235-315 C

**FLAMMABLE LIMITS LOWER (LEL):** 0.7 % Volume

**FLAMMABLE LIMITS UPPER (HEL):** 6.0 % Volume

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## SECTION 10: STABILITY AND REACTIVITY

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**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

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### ACUTE TOXICITY:

LD50 (Oral, rat ) > 2000 mg/kg

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

Inhalation LC > near saturated vapour concentration / 1hrs

### 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:

Essentially non irritating to eyes.

### CHRONIC EFFECTS:

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

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## REPRODUCTIVE TOXICITY:

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

## MUTAGENICITY:

Not expected to be mutagenic.

## CARCINOGENICITY:

Repeated exposure causes skin tumour promotion in experimental animals.

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## SECTION 12: ECOLOGICAL INFORMATION

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### ECOTOXICITY:

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

### PERSISTENCE/BIODEGRADIBILITY :

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

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 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.

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## SECTION 14: TRANSPORT INFORMATION

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### Road and Rail Transport:

**Proper Shipping Name:** Petroleum Distilates, n.o.s.  
**DG Class:** 3  
**UN Number :** 1268  
**Packing Group:** III  
**HAZCHEM :** 3Y

### Marine Transport:

**Proper Shipping Name:** Petroleum Distilates, n.o.s..  
**DG Class:** 3  
**UN Number:** 1268  
**Packing Group:** III  
**HAZCHEM :** 3Y

### Air Transport :

**Proper Shipping Name:** Petroleum Distilates, n.o.s.  
**Hazard Class:** 3  
**UN Number:** 1268  
**Packing Group:** III  
**HAZCHEM :** 3Y

**PRODUCT IS CLASSIFIED AS A MARINE POLLUTANT .**

### IMDG:

This material is not classified as dangerous under IMDG regulations.

### IATA:(country variations may apply)

This material is not classified as dangerous under IATA regulations.

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## SECTION 15: REGULATORY INFORMATION

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**Country Region :** New Zealand.

**Inventory:** NZIC.

**Status:** Listed

### EPA New Zealand Approval Code:

HSR002490

Classified as Hazardous according to the New Zealand Hazardous substances(Minimum Degrees of Hazard) Regulations 2001.

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Group Standard:

Additives, Process Chemicals and Raw Materials (combustible) Group Standard 2006. All components of this product are listed in the New Zealand Inventory of Chemicals.

Refer [WWW.EPA.GOV.T.NZ](http://WWW.EPA.GOV.T.NZ) for information on controls.

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## SECTION 16: OTHER INFORMATION

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### 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 01/08/2018

**End of MSDS**