

## **Section 1. Identification of the Substance/Preparation and of the Company/Undertaking**

Product Name                    **Envirosolv**  
Material number                8110304

NZ Distributor                    Velocity Vehicle Care NZ Ltd Level 4  
3 London St, Hamilton, 3240  
Phone: 0800 4 83562 (0800 4 VELOC)  
Email: [orders@velocityvehiclecare.com](mailto:orders@velocityvehiclecare.com)

Emergency Number                **New Zealand: 0800 243 622**

Classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.  
Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and the Hazardous Substances (Classification) Notice 2017.

Australian Distributor            Velocity Vehicle Care Pty Ltd  
5 Horsburgh Drive, Altona North, Vic, 3027  
Ph: 1300 990 074  
Email: [orders@velocityvehiclecare.com](mailto:orders@velocityvehiclecare.com)

Emergency Number                **Australia: 1800 127 406**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; DANGEROUS GOODS.  
Classified as hazardous according to the criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

### **Recommended use of the chemical and restrictions on use**

Recommended use                : Lubricant, rust preventative, penetrant, polish, preservative

## **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Flammable Liquid	Category 3
Skin corrosion/Irritation	Category 2
Serious eye damage/Irritation	Category 2
Skin sensitisation	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

### GHS label elements

Hazard pictograms



Signal Word

**DANGER**

Hazard statements

- : H226 Flammable liquid and vapour.  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

- : **Prevention**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children  
P103 Read label before use  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist/ vapours/ spray.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use foam/water spray/fog to extinguish.  
**Storage:**  
P403 + P233+ P235 Store in a cool well-ventilated place. Keep container tightly closed.  
**Disposal:**  
P501 Dispose of contents/container in accordance with local regulation.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration [%]
D-Limonene	5989-27-5	95 - 100

**SECTION 4. FIRST AID MEASURES**

**If inhaled** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.

**In case of skin contact** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.

**In case of eye contact** If in eyes, hold eyes open, flood with water for at least 15 minutes. If symptoms persist transport to nearest medical facility for additional treatment.

**If swallowed** If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Most important symptoms and effects, both acute and delayed** Inhalation: May cause irritation to the respiratory system, headaches and coughing.

Skin: May include redness, itching, possible dermatitis. May cause sensitisation by skin contact.

Eye: May include redness, burning, blurred vision, or swelling.

Ingestion: May cause irritation to the gastrointestinal tract, nausea and vomiting.

**Medical attention and special treatment** Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : For a small fire use dry chemicals, carbon dioxide, water spray or foam. For large fires use water spray, fog or foam.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards arising from chemical : Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible. Use water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus. Hazchem code 3Y.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Avoid contact with spilled or released material. Shut off leaks, if possible, without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.
- Environmental precautions : Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.
- Methods and materials for containment and cleaning up : For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Handle and open containers with care in a well-ventilated area.
- Conditions for safe storage : Store in a cool, well-ventilated area. Do not store near strong oxidants.
- Materials to avoid : Strong oxidizing agents

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

#### **Exposure control measures**

No exposure standard has been established by Safe Work Australia.

#### **Biological occupational exposure limits**

No biological limits have been established by Safe Work Australia.

**Engineering measures** : Ensure that adequate ventilation is provided. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

#### **Personal protective equipment**

**Respiratory protection** : If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

**Hand protection** : Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes

**Eye protection** : Wear safety goggles.

**Skin and body protection** : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

**Hygiene measures** : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Appearance : liquid

Colour : Colourless to yellow

Odour : Characteristic

Odour Threshold : Data not available

pH : Not applicable

Melting point/freezing point : -74°C

Boiling point : 175°C

Flash point : 46°C

Flammability: : Flammable

Evaporation rate : Data not available

Upper explosion limit : 6.1

Lower explosion limit : 0.7

Vapour pressure (mmHg @ 20°C): : 2

Relative vapour density : 4.7

Density (g/ml @ 15°C) : 0.84

Water solubility : Not miscible with water

Solubility in other solvents	: Data not available
Partition coefficient (log kow)	: 4.23
Auto-ignition temperature	: 237°C
Thermal decomposition	: Data not available
Viscosity, kinematic	: Data not available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable under normal conditions of use.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: Stable under normal conditions of use.
Conditions to avoid	: Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	: Strong oxidising agents.
Hazardous decomposition products	: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Potential Health Effects**

Acute oral toxicity	: Expected to be of low toxicity, LD50 Oral (rat) > 2000 mg/kg
Acute inhalation toxicity	: No data
Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg (rabbit) Method: OECD Guideline 402
Skin corrosion/irritation	: Irritating to skin
Serious eye damage/irritation	: May be irritating to eyes
Respiratory or skin sensitisation	: May cause sensitisation by skin contact
Germ cell mutagenicity	: Not expected to be mutagenic
Carcinogenicity	: Not expected to be carcinogenic
Specific Target Organ Toxicity single exposure	: No data
Specific Target Organ Toxicity repeated exposure	: Repeated or prolonged exposure can cause defatting of skin and can lead to dermatitis
Aspiration hazard	: No data

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Avoid contaminating drains or waterways.

**Persistence and degradability**

Readily biodegradable according to the criteria of the OECD 301 guideline

**Bioaccumulative potential**

May bioaccumulate in fish and other aquatic organisms

**Mobility in soil**

Low mobility in soil

**Acute toxicity:**

Fish (96h):	LC50 – 0.7
Daphnia Magna (48h):	LC50 – 0.57
Green Algae (96h):	NOEC – 4.08

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with local regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION**

**Road and Rail Transport**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS. Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

UN No.	2319
Class:	3
Packing Group:	III
Proper Shipping Name:	Terpene Hydrocarbons, N.O.S. (D-Limonene)
HAZCHEM	3Y

**Marine Transport**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS

UN No. 2319  
Class: 3  
Packing Group: III  
Proper Shipping Name: Terpene Hydrocarbons, N.O.S. (D-Limonene)  
IMDG EMS Fire/Spill: F-E, S-D

**Air Transport**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No. 2319  
Class: 3  
Packing Group: III  
Proper Shipping Name: Terpene Hydrocarbons, N.O.S. (D-Limonene)

**SECTION 15. REGULATORY INFORMATION**

**AICS** All substances listed  
**POISONS SCHEDULE** Not scheduled  
**NZ Approval code** Lubricants (Flammable) Group Standard 2017  
HSR002603

<b>GHS to HSNO classification comparison</b>	
<b>GHS classification</b>	<b>HSNO Equivalent</b>
Flammable liquids Cat 3	3.1C
Skin corrosion / Irritation Cat 2	6.3A
Eye Damage Cat 2	6.4A
Skin sensitisation Cat 1	6.5B
Acute Aquatic Toxicity Cat 1	9.1A
Chronic Aquatic Toxicity Cat 1	9.1A

**SECTION 16. OTHER INFORMATION**

**AICS** Australian Inventory of Chemical Substances  
**SWA** Safe Work Australia  
**NZ** New Zealand  
**IARC** International Agency for Research on Cancer  
**WES** Workplace Exposure Standards  
**GHS** Globally Harmonised System of Classification and Labelling of Chemicals  
**HSNO** Hazardous Substances and New Organisms  
**EMS** Emergency Spill Procedures  
**STOT** Specific Target Organ Toxicity  
**TWA** Time Weighted Average  
**STEL** Short-Term Exposure Limit  
**CAS** Chemical Abstracts Service

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