



## Section 1: Identification of the Material and Supplier

**Product Name:** VEH 12

**Other Names:** Surfactant solution in mixed hydrocarbons.

**Proper shipping name (ADG Code):** Flammable liquid, n.o.s.  
(petroleum distillates, toluene)

**Recommended use:** As a motor cleaner and degreaser.  
Use as directed on the product label.

**Supplier:** Hunters Products (TAS) Pty. Ltd.,  
A.C.N. 004 601 263

### HEAD OFFICE

60 Gleadow Street,  
INVERMAY TAS 7248  
Tel: 03 6331 4755  
Fax: 03 6334 1065

### HOBART OFFICE

105 Albert Road,  
MOONAH TAS 7009  
Tel: 03 6228 7955  
Fax: 03 6228 7988

### BURNIE OFFICE

22 Pearl Street,  
WIVENHOE TAS 7320  
Tel: 03 6431 9627  
Fax: 03 6432 2083

### Emergency Phone Numbers:

Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Dangerous goods.

**Risk Phrases:**

R: 10	Flammable.
R: 20	Harmful by inhalation.
R: 43	May cause sensitisation by skin contact.
R: 65	Harmful: may cause lung damage if swallowed.

**Safety Phrases:**

S: 2	Keep out of the reach of children.
S: 23	Do not breathe vapour.
S: 24/25	Avoid contact with skin and eyes.
S: 29	Do not empty into drains.
S: 33	Take precautionary measures against static discharges.
S: 37	Wear suitable gloves.
S: 62	If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.

## Section 3: Composition/Information on Ingredients

### Ingredients:

White spirits		> 60 %
Toluene	[108-88-3]	10 - 30 %
Mixed surfactants		10 - 30 %
Tall oil	[8002-26-4]	< 10 %
Other ingredients deemed not to be hazardous		to 100 %

## Section 4: First Aid Measures

**For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.**

**Swallowed:** If swallowed, do NOT induce vomiting.

**Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Eyes:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

**Inhaled:** Remove from exposure, rest and keep warm. Seek medical advice.

### First Aid facilities:

Recommended: Eye wash. Hand wash basin.

### Advice to Doctor:

Product is a mixture of surfactants in mixed hydrocarbons, containing a low proportion of tall oil. Serious aspiration risk if swallowed. Harmful by inhalation. May cause sensitisation by skin contact. Contact Poisons Information Centre.

### Aggravated medical conditions:

Prior sensitisation to tall oil or other pine oils.  
Use of alcoholic beverages may enhance adverse effects of this product.

## Section 5: Fire Fighting Measures

**HAZCHEM Code:** 3[Y]

**Evacuate:** No.

**Extinguishant:** Foam or dry agent.

**Risk of violent reaction or explosion:** Yes.  
Vapour/air mixtures will be heavier than air - risk of remote ignition.

<b>Products of combustion:</b>	Oxides of carbon, black smoke, oxides of sulphur, oxides of nitrogen.
<b>Protective Equipment:</b>	Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

### Emergency Procedures:

Contain. Shut off all sources of ignition.  
Increase ventilation.

### For large spills:

Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills.

### For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable closed container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

## Section 7: Handling and Storage

### Precautions for safe handling:

Avoid contact with skin and eyes. Avoid breathing vapours.  
Keep away from naked flames and other sources of ignition.  
Pipes and vessels should be earthed when transferring between containers.

### Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children.  
Large quantities should be stored in a bunded flammables store.  
Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from naked flames and other sources of ignition. Prevent vapours from collecting in enclosed or low lying spaces. Take precautionary measures against static discharges. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

### Incompatibles:

Oxidising agents, mineral acids, caustic alkalis.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

<b>ES-TWA:</b>	<i>White spirit, see:</i>	
	Mineral turpentine	480 mg/m <sup>3</sup>
	Toluene	50 ppm, 191 mg/m <sup>3</sup>
<b>ES-STEL:</b>	Toluene	150 ppm, 574 mg/m <sup>3</sup>
<b>ES-PEAK:</b>	None assigned.	

**Notations:** Tall oil                      *Sens.*

Not assigned by NOHSC, but see:  
Toluene                      Skin                      [*ACGIH, UK, Finland, Denmark, Hungary, Sweden*]

*[Skin] indicates that this material may be absorbed via unbroken skin, and any such contact may invalidate the TLV.*

*[Sens] indicates that this material is a known sensitiser and may cause a specific immune response in some individuals.*

**Biological Limit Values:**                      No data found.

### Engineering Controls:

Use **only** flame proof equipment.  
Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities, or if vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible and at least below the TLV.

### Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing vapours.  
Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

#### Normal Use:

Eye/face protection  
Gloves, rubber or plastic.

#### Industrial Quantities:

Positive pressure air hood  
Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance:	Dark, oily liquid.	
Odour:	Mild hydrocarbon odour.	
pH:	9.7	
Vapour Pressure:	No data.	
Vapour Density:	About 3.9	(Air = 1)
Boiling Point:	From 111 °C	
Melting Point:	No data.	
Volatiles:	About 77 %	
Volatile Organic Compounds (VOC):	About 77 %	
Evaporation Rate:	No data.	
Solubilities:	Miscible with water.	
Specific Gravity/Density:	0.8 - 0.9 g/mL @ 20 °C	
Flash Point:	About 30 °C	
Flammable Limits:	0.9 - 7.5 %	[white spirits]
	1.1 - 19.0 %	[toluene]
Dust Explosion:	Not applicable.	
Auto-ignition Temperature:	From about 230 °C	

### Other Information:

Mixture of surfactants in mixed hydrocarbons. May react with strong oxidising agents, concentrated mineral acids, caustic alkalis. Very slippery when spilled.

## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Incompatible materials, sources of ignition.
<b>Incompatible Materials:</b>	Oxidising agents, mineral acids, caustic alkalis.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon, oxides of sulphur, oxides of nitrogen.
<b>Hazardous Reactions:</b>	Contact with strong oxidising agents may cause fire.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

<b>Acute:</b>	<b>Swallowed:</b>	Harmful if swallowed. May cause central nervous system depression. Likely to cause gastric upset, nausea, vomiting and diarrhoea. Serious risk of aspiration of hydrocarbon froth into the lungs.
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**Skin:** May be irritating to skin. Will decrease the skin. May cause redness, itching, dry skin, inflammation. May cause cyanosis (blue skin) of the extremities.

**Eyes:** Irritating to eyes. May cause redness and pain. Risk of tissue damage. May cause chemical conjunctivitis and corneal damage.

**Inhaled:** Inhalation of hydrocarbon vapours may cause central nervous system effects including headache, dizziness, drowsiness, nausea, loss of consciousness and coma. Aspiration of hydrocarbon froth into the lungs may cause lung damage, pneumonitis, pulmonary oedema (fluid in the lungs) which may be fatal.

**Chronic:** Over-exposure to hydrocarbon vapours may cause irregular heart rate, central nervous system effects including impaired learning ability and psychological disorders. Repeated skin contact may cause dermatitis. Tall oil is reported as a sensitiser by skin contact and may cause allergic reactions in some individuals.

<b>LD<sub>50</sub> :</b>	White spirit	No data found.
	Toluene	636 mg/kg oral, rat. 14,100 µL/kg skin, rabbit.
<b>LDLo:</b>	Toluene	50 mg/kg oral, human. 719 µL/kg oral, man.

## Section 12: Ecological Information

**Ecotoxicity:** Harmful to aquatic organisms.

**Persistence and degradability:** One of the surfactants used in this product is not considered to be readily biodegradable.

**Mobility:** Readily transported on the surface of running water.

**Environmental Fate:** No data.

**Bioaccumulative potential:** No data.

**Other adverse environmental effects:** Contains surfactants. Local concentrations may be harmful to aquatic organisms, including fish.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

**Disposal methods and containers:**

Avoid disposal to sewer, natural waters or the environment.

**Special precautions for landfill or incineration:**

High temperature incineration.

Unsuitable for landfill.

## Section 14: Transport Information

<b>UN Number:</b>	UN 1993
<b>UN Proper shipping name:</b>	Flammable liquid, n.o.s. (petroleum distillates, toluene)
<b>Class and subsidiary risk:</b>	3                      Flammable.
<b>Packaging group:</b>	III
<b>Special precautions for user:</b>	Do not store or transport with dangerous goods of classes 1, 2.1 (in bulk), 2.3, 4.2, 5.1, 5.2, 7.
<b>HAZCHEM Code:</b>	3[Y]
<b>Material for export:</b>	Regulated. Refer to <b>IMO/IMDG</b> and <b>IATA/ICAO</b> .

## Section 15: Regulatory Information

<b>Poisons (SUSDP):</b>	Schedule S5 <i>Hydrocarbons, liquid &gt; 25 %</i>
<b>Dangerous Goods:</b>	Yes.                      UN 1993      3/III                      3[Y].
<b>Carcinogen:</b>	<b>Australia</b> <b>IARC</b> <b>NTP</b> <b>RTECS</b> No.                                      No.                                      No.                                      No.
<b>Agricultural and Veterinary Chemicals Act:</b>	Not applicable.
<b>Australian Inventory of Chemical Substances (AICS):</b>	Listed.
<b>Other National/International Regulations:</b>	No data.

## Section 16: Other information

**Date of MSDS update:** August 2008  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(*maximale Arbeitsplatzkonzentration*)  
IARC - International Agency for Research on Cancer (France).  
NPT - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Other Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*