



## Section 1: Identification of the Material and Supplier

**Product Name:** Commercial Liquid Emulsifier

**Other Names:** Ethanol/surfactant solution.

**Proper shipping name (ADG Code):** Ethanol solution.

**Recommended use:** As a surfactant solution.

**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: 36/38 Irritating to skin and eyes.

**Safety Phrases:** S: 24/25 Avoid contact with skin and eyes.  
S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S: 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## Section 3: Composition/Information on Ingredients

**Ingredients:**

Nonyl phenol ethoxylate	[9016-45-9]	> 60 %
Ethanol	[64-17-5]	< 10 %
Other ingredients deemed not to be hazardous		< 10 %

## 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 surfactant solution containing a low proportion of methylated spirit. Irritating to skin and eyes. If swallowed, vomiting should not have been induced because of risk of aspiration of froth into the lungs. Contact Poisons Information Centre.

### **Aggravated medical conditions:**

Pre-existing skin disorders.

## Section 5: Fire Fighting Measures

**HAZCHEM Code:** 2[Y]

**Evacuate:** No.

**Extinguishant:** Water fog or fine water spray.

**Risk of violent reaction or explosion:** Yes.  
Vapours are heavier than air - risk of remote ignition.  
Ethanol flames may be difficult to see in bright sunlight.

**Products of combustion:** Oxides of carbon, water vapour.

**Protective Equipment:** 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 concentrated vapours.  
Keep away from naked flames and other sources of ignition.

**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. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

**Incompatibles:**

Oxidising agents.

## Section 8: Exposure Controls/Personal Protection

**National Exposure Standards:**

<b>ES-TWA:</b>	Ethanol	1,000 ppm, 1,880 mg/m <sup>3</sup>	
<b>ES-STEL:</b>		None assigned by NOHSC, but see:	
	Ethanol	1,250 ppm, 2,400 mg/m <sup>3</sup>	[Finland]
<b>ES-PEAK:</b>		None assigned.	
<b>Notations:</b>		None.	

**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 concentrated 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:**

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

## Section 9: Physical and Chemical Properties

Appearance:	Clear, yellow, viscous liquid.	
Odour:	Smell of methylated spirit	
pH:	6 - 8	(1 % solution in water).
Vapour Pressure:	No data.	
Vapour Density:	1.59	(Air = 1) [ethanol]
Boiling Point:	From about 78 °C	[ethanol]
Melting Point:	No data.	
Volatiles:	10 %	
Volatile Organic Compounds (VOC):	10 %	[ethanol]
Evaporation Rate:	No data.	
Solubilities:	Miscible with water in all proportions.	
Specific Gravity/Density:	0.95 - 1.00 g/mL @ 20 °C	
Flash Point:	From about 14 °C	
Flammable Limits:	3.3 - 19.0 %	[ethanol]
Dust Explosion:	Not applicable.	
Auto-ignition Temperature:	363 °C	[ethanol]

**Other Information:**

Soluble in most organic solvents. May react with oxidising agents.  
 Very slippery when spilled.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Incompatible materials, naked flames and other sources of ignition.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon.

**Hazardous Reactions:** Contact with 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>	Bitter taste. Likely to cause irritation of the gastrointestinal tract, abdominal pain, nausea, vomiting and diarrhoea. An aspiration risk.
	<b>Skin:</b>	Irritating to skin. Will have a degreasing effect on the skin. May be absorbed through the skin.
	<b>Eyes:</b>	Irritating to eyes. Irritation may be severe. May cause redness, itching and pain. Possible risk of tissue damage.
	<b>Inhaled:</b>	Inhalation of ethanol fumes may cause irritation of the respiratory tract and mucous membranes, cough, drowsiness, headache and fatigue. Aspiration of froth into the lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) and pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed.
<b>Chronic:</b>	Repeated skin exposure may lead to irritation and dermatitis.	
<b>LD<sub>50</sub> :</b>	Surfactant	3 - 3,000 mg/kg oral, rat.
	Ethanol	7,060 mg/kg oral, rat.
<b>LDLo:</b>	Ethanol	1,400 mg/kg oral, human. 2,000 mg/kg oral, child.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Harmful to aquatic organisms.
<b>Persistence and degradability:</b>	The surfactant used in this product is not considered to be readily biodegradable.
<b>Mobility:</b>	Readily transported by water.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.

**Other adverse environmental effects:** Contains surfactant. 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 natural waters or the environment.

**Special precautions for landfill or incineration:**

High temperature incineration.

May not be suitable for some landfill sites.

## Section 14: Transport Information

<b>UN Number:</b>	UN 1170
<b>UN Proper shipping name:</b>	Ethanol solution.
<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. Contain spillages.
<b>HAZCHEM Code:</b>	2[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>	Not a scheduled poison.			
<b>Dangerous Goods:</b>	Yes.	UN 1170	3/III	2[Y].
<b>Carcinogen:</b>	<b>Australia</b> No.	<b>IARC</b> No.	<b>NTP</b> No.	<b>RTECS</b> 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:** September 2007  
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.*