



71806

Issue Date: March 2008

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# INJECT +PLUS+

## Material Safety Data Sheet

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	Wynn's Inject +Plus+
<b>Other Names</b>	71806 125 ml FLAMMABLE LIQUID, N.O.S./ADG
<b>Recommended Use</b>	Alcohol-based cleaner for vehicle fuel injectors
<b>Supplier Name</b>	Wynn's Australia Pty Ltd An (ITW), Illinois Tool Works Company ABN 73 000 370 150
<b>Address</b>	100 Hassall Street, Wetherill Park NSW 2164 Private Bag 35, Wetherill Park NSW 2164
<b>Telephone Number</b>	(02) 9828 0900 Email: <a href="mailto:wynnsaus@wynns.net">wynnsaus@wynns.net</a> Website: <a href="http://www.wynns.net">www.wynns.net</a>
<b>Emergency Phone Number</b>	(02) 9828 0900 Monday-Friday 8.00am – 5.00pm 13 11 26 (24 hours Australia) Poisons Information Centre (PIC) 0800 764 766 (New Zealand) Poisons Information Centre (PIC)

### SECTION 2 HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	NON-HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Not classified as hazardous according to the criteria of NOHSC. Classified as Dangerous Goods according to the criteria of the ADG Code.
<b>Risk Phrase</b>	R 11 Highly flammable R 36 Irritating to eyes R 37 Irritating to respiratory system

**Safety Phrase**

S 2 Keep out of the reach of children.  
 S 16 Keep away from sources of ignition.  
 S 24 Avoid contact with skin.  
 S 25 Avoid contact with eyes.

<b>SECTION 3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**Pure substances**

Not applicable – Mixture

**Mixtures**

Chemical Identity	CAS Number	Proportion
Ethanol	64-17-5	30-60%
Isopropanol	67-63-0	30-60%
Methyl Isobutyl Carbinol	108-11-2	<10%
Surfactants	-	<10%
Other non-hazardous ingredients	-	<1%

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**Ingestion**

Do NOT induce vomiting. Keep at rest. Seek medical attention.

**Skin**

Wash affected area with soap and water. Remove contaminated clothing.

**Eye**

Flush with water for 15 minutes. If irritation persists, call for medical help.

**Inhalation**

Remove person to fresh air to avoid further inhalation.

**First Aid Facilities**

Eye wash station.

**Advice to Doctor**

Treatment should be based on symptoms and clinical condition.  
 Causes central nervous system depression.  
 Dermatitis may result from prolonged or repeated exposure.

<b>SECTION 5</b>	<b>FIRE FIGHTING MEASURES</b>
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**Suitable Extinguishing Media**

Water fog, dry chemical, carbon dioxide, foam.

**Hazards From Combustion Products**

Thermal decomposition may produce oxides of carbon.

**Precautions For Fire Fighters**

Use water to cool fire exposed containers.

**Special Protective Equipment**

Fire fighters to wear a self contained breathing apparatus.

**Hazchem Code**

3[Y]E.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Remove sources of ignition. Prevent product from entering drink water supplies and sewer.
<b>Methods and Materials for Containment and Clean Up Procedures</b>	With small spills, absorb with inert absorbent material. Shovel into waste containers. Use low-sparking hand tools and explosion-proof electrical equipment. Dispose in compliance with Federal, State and Local regulations.

## SECTION 7 HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Avoid proximity or contact with hot surfaces, flames or sparks. Avoid skin and eye contact. Keep out of reach of children.
<b>Conditions for Safe Storage</b>	Do not store opened unenclosed bottles. Use entire contents. Keep away from all sources of ignition. Store in dry, cool, well ventilated area. Store away from direct sunlight.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards

Name	ES-TWA	ES-STEL	ES-Peak
None established for product	-	-	-
Established for ingredients			
Isopropyl Alcohol	400 ppm 983 mg/m <sup>3</sup>	500 ppm 1,230 mg/m <sup>3</sup>	-
Ethyl Alcohol	1,000 ppm 1,880 mg/m <sup>3</sup>	-	-
Methyl Isobutyl Carbinol	25 ppm 104 mg/m <sup>3</sup>	40 ppm 167 mg/m <sup>3</sup>	-

### Alternative Standards

1000 ppm (Ethyl Alcohol) OSHA PEL, ACGIH TLV-TWA.  
400 ppm (Isopropyl Alcohol) OSHA PEL, ACGIH TLV-TWA.  
25 ppm skin (Methyl Isobutyl Carbinol) OSHA PEL, ACGIH-TWA.  
40 ppm skin (Methyl Isobutyl Carbinol) STEL

Contains no other ingredients now known to be hazardous as defined by OSHA 29CFR 1910.1000(z) and 29CFR 1910.1200.

### Biological Limit Values

No biological limit allocated.

### Engineering Controls

Normal ventilation.  
Provide mechanical ventilation of confined spaces.

**Personal Protective Equipment**

<b>Respiratory Protection</b>	None required. Ensure good ventilation.
<b>Eye / Face Protection</b>	Safety glasses. Goggles or face shield. Eyewash bottle with clean water.
<b>Skin Protection</b>	Rubber, plastic gloves. Long sleeve shirt is recommended.
<b>Thermal Hazards</b>	None applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear thin pale blue liquid
<b>Odour</b>	Alcohol
<b>pH Value</b>	Not applicable
<b>Vapour Pressure</b>	Not determined
<b>Vapour Density</b>	Not determined
<b>Boiling Point/Range</b>	Not determined
<b>Freezing Point</b>	Not determined
<b>Melting Point</b>	Not applicable
<b>Solubility</b>	Partial in water
<b>Density</b>	0.799 @ 15°C
<b>Flash Point</b>	12°C (PMCC)
<b>Flammable Limits</b>	Not determined
<b>Ignition Temperature</b>	>300°C
<b>Refractive Index</b>	1.3871 @ 20°C
<b>Volatiles</b>	93.6% volume

**SECTION 10 STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable in normal conditions of use.
<b>Conditions to Avoid</b>	Store away from direct sunlight. Temperatures above 45°C
<b>Incompatible Materials</b>	Strong oxidising materials. Avoid contact with strong acids and oxidizers.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce oxides of carbon.
<b>Hazardous Reactions</b>	Polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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<b>Toxicology Information</b>	This material has not been identified as a carcinogen by NTP, IARC or OSHA. No toxicological information available.
<b>Acute Health Effects</b>	
<b>Ingestion</b>	May cause irritation to the digestive tract. Ingestion may cause inebriation, coma. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Minimal toxicity.
<b>Inhalation</b>	Overexposure to vapours may cause headaches, dizziness, nausea, narcosis. Avoid breathing vapours or mists. Vapours may cause drowsiness and dizziness. Irritating to respiratory system. May cause nausea, dizziness. May cause loss of consciousness or other central nervous system effects.
<b>Eye</b>	May cause slight irritation, watery eyes and blurred vision. Irritating, will injure eye tissue if not removed promptly.
<b>Skin</b>	May absorb on prolonged and repeated exposure. May cause slight irritation on prolonged contact. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Chronic Health Effects</b>	
<b>Ingestion</b>	Isopropanol – Moderately toxic by ingestion. Human systemic effects by ingestion: pulse rate decrease, blood pressure lowering, anaesthesia, narcosis, headache, dizziness, nausea or vomiting, coma, hallucinations. orl-rat TDLo : 6,480 mg / kg orl-man TDLo: 14,432 mg / kg orl-man LDLo : 5,272 mg / kg orl-mus LD50 : 3,600 mg / kg orl-dog LD50 : 4,797 mg / kg  Ethanol – Moderately toxic to humans by ingestion. orl-man TDLo : 700 mg / kg orl-wmn TDLo : 41 g / kg (41 W preg) : REPRODUCTIVE EFFECTS orl-chd LDLo : 2,000 mg / kg orl-rat LD50 : 7,060 mg / kg orl-mus LD50 : 3,450 mg / kg orl-dog LDLo : 5,500 mg / kg

Methyl Isobutyl Carbinol – Moderately toxic by ingestion.  
ori-rat LD50 : 2,590 mg / kg  
ori-mus LDLo : 1,000 mg / kg

**Inhalation**

Isopropanol – Moderately toxic by inhalation.  
Human systemic effects by inhalation: pulse rate decrease, blood pressure lowering, anaesthesia, coma, narcosis, hallucinations, headache, dizziness, nausea or vomiting.  
ihl-rat TCLo : 10,000 ppm / 7 H  
ihl-rat LC50 : 16, 000 ppm / 4 H  
ihl-mus LCLo : 12,800 ppm / 3 H

Ethanol – Mildly toxic by inhalation.  
Ihl-rat LC50 : 20,000 ppm / 10 H  
ihl-mus LC50 : 39 g / m<sup>3</sup> / 4 H

Methyl Isobutyl Carbinol – Moderately toxic by inhalation.  
Inhalation of high concentrations can cause anaesthesia.  
ihl-rat LCLo : 2,000 ppm / 4 H

**Eye**

Isopropanol – A severe eye irritant.  
It can cause corneal burns and eye damage.  
eye-rbt 10 mg MODERATE

Ethanol – Eye irritant.  
eye-rbt 100 mg / 24 H MODERATE EFFECTS

Methyl Isobutyl Carbinol – Severe eye irritant.  
eye-rbt 20 mg open SEVERE EFFECTS

**Skin**

Isopropanol – A skin irritant.  
It is absorbed by the skin.  
skn-rbt 500 mg MILD  
skn-rbt LD50 : 12,800 mg / kg

Ethanol – Mildly toxic by skin contact.  
skn-rbt 400 mg open MILD EFFECTS  
skn-rbt 500 mg / 24 H SEVERE EFFECTS

Methyl Isobutyl Carbinol – Moderately toxic by skin contact. Skin irritant.  
skn-rbt 10 mg / 24 H open MILD EFFECTS  
skn-rbt LD50 : 3,560 mg / kg

**Other Effects of Prolonged/Repeated Overexposure**

Vapours in a confined area in high concentrations are anaesthetic. Overexposure may result in light headiness, dizziness, nausea.

**SECTION 12      ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Persistence/ Degradability</b>	The main ingredient "ethanol/propanol" is expected to biodegrade rapidly. Some components are not readily biodegradable. Prevent product from entering drains / surface water / ground water.
<b>Mobility</b>	Miscible with water. This product is water soluble and is expected to remain primarily in water.

**SECTION 13      DISPOSAL CONSIDERATIONS**

<b>Disposal Methods</b>	Ensure waste disposal conforms to local waste disposal regulations. Avoid unauthorised discharge to sewer.
<b>Special Precautions for Landfill or Incineration</b>	This product is not suitable for disposal by landfill.

**SECTION 14      TRANSPORT INFORMATION**

<b>UN Number</b>	1993
<b>Proper Shipping Name</b>	FLAMMABLE LIQUID, N.O.S.
<b>Class and Subsidiary Risk</b>	3
<b>Packing Group</b>	11
<b>Special Precautions for User</b>	None allocated.
<b>Hazchem Code</b>	3[Y]E

**SECTION 15      REGULATORY INFORMATION**

<b>Poisons Schedule</b>	None scheduled.
<b>Hazard Category</b>	FLAMMABLE LIQUID, N.O.S./ ADG Code Sixth Edition (1998)

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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**Acronyms**

ABN	Australian Business Number
ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
AS	Australian Standard
CAS	Chemical Abstracts Service (USA)
COC	Cleveland Open Cup
EPA	Environment Protection Agency (Australian States)
IARC	International Agency for Research on Cancer
IP	Institute of Petroleum (UK)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program (USA)
NZS	New Zealand Standard
OSHA	Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Level
PMCC	Pensky – Martens Closed Cup
SCBA	Self-Contained Breathing Apparatus
STEL	Short Term Exposure Limit
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations

**Abbreviations**

cP	centiPoise
cSt	centiStoke
g	gram
Hg	Mercury
kPa	kiloPascal
L	litre
m <sup>3</sup>	cubic metre
mg	milligram
mL	millilitre
mm	millimetre
°C	degrees of temperature in Celsius (Centigrade)
%	percent(age)

**Note**

This form has been prepared in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)] issued by the National Occupation Health and Safety Commission April 2003.

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<b>END OF MATERIAL SAFETY DATA SHEET</b>
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