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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name

**ECP Limited**

Address:

39 Woodside Ave, Northcote, Auckland, New Zealand

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<b>Product</b>	Plasma Torch Coolant			<b>Code</b>	44358	
<b>CAS#</b> 57-55-6	<b>HSNO#</b> not hazardous	<b>UN # Not</b> applicable	<b>DG</b> Class/es None	<b>Packing group</b> None	<b>Tracking?</b> No	<b>Handlers</b> Certificate? No

**Recommended use:** Cutting coolant**2. Hazards identification**

New Zealand hazards classification:

Not a hazardous substance or mixture.

**3. Composition/information on ingredients**

Component	Classification	Concentration
Propylene Glycol	Non Hazardous Formula : C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> Molecular weight : 76.09 g/mol CAS-No. : 57-55-6	30-60%
Water	Non hazardous	30-70%
Benzotriazole	Non hazardous Formula : C <sub>6</sub> H <sub>5</sub> N <sub>3</sub> Molecular weight : 119.12 g/mol CAS-No. : 95-14-7	0.1-3%
Ammonium acetate	Non hazardous Formula CH <sub>3</sub> COONH <sub>4</sub> 77.08g/mol CAS 631-61-8	4-7%

**4. First aid measures**

4.1 Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described

in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available

## **5. Firefighting measures**

**5.1 Extinguishing media** Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **5.2 Special hazards arising from the substance or mixture** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>) **5.3 Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary. **5.4 Further information** No data available

## **6. Accidental release measures**

**SECTION 6: Accidental release measures** **6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8. **6.2 Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. **6.3 Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7. Handling and storage**

**7.1 Precautions for safe handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. **7.2 Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. **7.3 Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

Components with workplace control parameters Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Wash and dry hands.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

### 9. Physical and chemical properties

**9.1 Information on basic physical and chemical properties** a) Appearance Form: liquid, clear, viscous Colour: colourless b) Odour No data available c) Odour Threshold No data available d) pH No data available e) Melting point/freezing point Melting point/range: -60 °C - lit. f) Initial boiling point and boiling range 187 °C - lit. g) Flash point 103 °C - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits Upper explosion limit: 12.5 %(V) Lower explosion limit: 2.6 %(V) k) Vapour pressure 0.11 hPa at 20 °C l) Vapour density 2.63 - (Air = 1.0) m) Relative density 1.036 g/cm<sup>3</sup> at 25 °C n) Water solubility soluble o) Partition coefficient: n-octanol/water log Pow: -0.8 at 25 °C p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available

**9.2 Other safety information** Relative vapour density 2.63 - (Air = 1.0)

### 10. Stability and reactivity

10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents 10.6 Hazardous decomposition products Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides In the event of fire: see section 5

### 11. Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 20,000 mg/kg LD50 Dermal - Rabbit - 20,800 mg/kg LD50 Intramuscular - Rat - 14 g/kg LD50 Intravenous - Dog - 26 g/kg LD50 Intraperitoneal - Rat - 6,660 mg/kg LD50 Subcutaneous - Rat - 22,500 mg/kg LD50 Intravenous - Rat - 6,423 mg/kg LD50 Intraperitoneal - Mouse - 9,718 mg/kg Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edema. Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in spleen. LD50 Subcutaneous - Mouse - 17,370 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Behavioral: Muscle contraction or spasticity. Cyanosis LD50 Intravenous - Mouse - 6,630 mg/kg LD50 Intravenous - Rabbit - 6,500 mg/kg Skin corrosion/irritation Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: Mild eye irritation Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available Carcinogenicity No data available IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: TY2000000

Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological information

### 12.1 Toxicity

Toxicity to fish mortality NOEC - *Pimephales promelas* (fathead minnow) - 52,930 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates mortality NOEC - *Daphnia* (water flea) - 13,020 mg/l - 48 h

EC50 - *Daphnia magna* (Water flea) - > 10,000 mg/l - 48 h

12.2 Persistence and degradability No data available  
12.3 Bioaccumulative potential No data available  
12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
12.6 Other adverse effects No data available

## 13. Disposal considerations

13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

## 14. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	None	None	None
14.2	UN Proper Shipping name	Not Dangerous goods	Not dangerous goods	Not dangerous goods
14.3	Transport Hazard Class	-	-	-
14.4	Packaging group	-	-	-
14.5	Environmental Hazards	-	-	-
14.6	Special precautions for user	None		

14.7 Incompatible materials Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents  
Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

## 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
National regulatory information HSNO Approval Code: not required

## 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The

user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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