



## STATEMENT OF HAZARDOUS NATURE

Non Hazardous According to Criteria of Work safe Australia

### IDENTIFICATION

|                                  |  |
|----------------------------------|--|
| Product Name:                    | Liquid Intelligents 221                        |
| Chemical Name:                   | Engine Oil Additive / Engine Antiwear Additive |
| Other Names:                     | None Assigned                                  |
| Manufacturer's Product Code:     | 221  |
| UN Number:                       | None Assigned                                  |
| Dangerous Goods Class            | None Assigned.                                 |
| Subsidiary Risk[s]:              | None Assigned                                  |
| Hazchem Code:                    | None Assigned                                  |
| EPG NO:                          | None Assigned                                  |
| Poisons Schedule Number:         | None Assigned                                  |
| Toxic and Hazardous Ingredients: | None   |
| Uses:                            | Engine Oil Additive.                           |

### PHYSICAL DESCRIPTION AND PROPERTIES

|                      |                        |
|----------------------|------------------------|
| Colour:              | Clear.                 |
| Appearance:          | Light Coloured Liquid. |
| Form:                | Liquid                 |
| Boiling Point:       | No Data.               |
| Melting Point:       | No Data                |
| Vapour Pressure:     | Not Determined         |
| Specific Gravity:    | 0.88 at 15.60 Deg C    |
| Volatiles:           | Unknown                |
| Evaporation Rate:    | Not Determined         |
| Vapour Density:      | Not Determined         |
| Odour:               | Mild                   |
| Solubility in Water: | Insoluble              |

### FLASH POINT

|                            |                |
|----------------------------|----------------|
| Solvent:                   | Not Applicable |
| Lubricant residue:         | 223 °C (PMCC)  |
| Flammability Limits:       | Unknown        |
| Auto ignition Temperature: | No Data        |

### OTHER PROPERTIES

|                        |   |
|------------------------|---|
| Hazardous Ingredients: | This material is not known to contain greater than 0.1% of any carcinogen required to be listed under the OSHA Hazard Communication Standard (29CFR 1910.1200). |
|------------------------|---|

## MATERIAL SAFETY DATA SHEET

Please note that the chemical identity of some or all of the above hazardous ingredients is confidential Business information and is being withheld as permitted by 29CFR 1910.1200 and various State Right to Know Laws.

### INGREDIENTS

| Chemical Name                             | CAS Number                  | Proportion |
|---|-----------------------------|------------|
| Hydrotreated Paraffinic Base Oils         | (CAS# 64742-58-1),          | 30 –60%    |
| Viscosity Index Improver                  | (CAS# Mixture, NA),         | 1 – 10%    |
| Detergents                                | (CAS# Mixture, NA),         | 1 – 10%    |
| Dispersants                               | (CAS# Mixture, NA),         | 1 – 10%    |
| Anti-wear Additives                       | (CAS# Mixture, NA),         | 1 – 10%    |
| Zinc salt of Dialkyldithiophosphoric acid | (CAS# Mixture, NA),         | 10 - 20%   |
| Ethylene-Propylene Terpolmer              | (CAS# 25038-36-2),          | 10 - 20%   |
| Antioxidants                              | (CAS# 122-39-4, 68411-46-1) | 1 – 10%    |

### HEALTH HAZARD INFORMATION

#### HEALTH EFFECTS:

##### Acute:

##### Swallowed:

If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

##### Skin:

Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

##### Eyes:

Not expected to cause eye irritation. Based on data from components or similar materials.

##### Inhaled:

No data available to indicate product or components may be toxic or respiratory sensitisers.

##### Chronic:

LC 50:

No Data

LD 50:

No Data

### FIRST AID:

## MATERIAL SAFETY DATA SHEET

|                   |   |
|-------------------|---|
| <b>Swallowed:</b> | Do not induce vomiting. If conscious, give two glasses of water. Get immediate medical attention.                   |
| <b>Skin:</b>      | Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse. |
| <b>Eyes:</b>      | Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.                 |
| <b>Inhaled:</b>   | Remove exposed person to fresh air if adverse effects are observed.   |

**ADVICE TO PHYSICIAN:** Treat symptomatically.

### PRECAUTIONS FOR USE

|                              |  |
|------------------------------|--|
| <b>Exposure Standards:</b>   | The ACGIH TLV for mineral oil mists is 5mg/m <sup>3</sup> for a daily 8 hours exposure.  |
| <b>Engineering Controls:</b> | As for oil mists   |
| <b>Personal Protection:</b>  | Avoid prolonged or frequently repeated contact. Wash skin thoroughly with soap and water after contact. Use safety glasses and neoprene or nitrile rubber gloves for frequent contact. |
| <b>Flammability:</b>         | Product is not classed flammable. Flash Point greater than 190°C Product may support combustion. Do not store with strong oxidants.  |

### SAFE HANDLING INFORMATION

|                               |   |
|-------------------------------|---|
| <b>Storage and Transport:</b> | Keep containers closed when not in use.   |
| <b>Storage Temperature:</b>   | Material is normally stable at moderately elevated temperatures and pressures.  |
| <b>UN Class:</b>              | None Assigned   |
| <b>Packaging Group:</b>       | None Assigned   |
| <b>UN Number:</b>             | None Assigned   |
| <b>EPG Number:</b>            | None Assigned   |
| <b>Correct Shipping Name:</b> | Engine Oil Additive.  |
| <b>Spills and Disposals:</b>  | Personal protective equipment must be worn. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residue liquid can be absorbed on inert material. Check under Transportation and Labelling (DOT/CERCLA) and other regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills. |
| <b>Fire/Explosion Hazard:</b> | Not Known   |



**MATERIAL SAFETY DATA SHEET**

**Decomposition Products:** Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

**Hazchem Code:** None Assigned

**Extinguishant:** CO<sub>2</sub> dry chemical, alcohol foam. Water can be used to cool and protect exposed material.

**DANGER OF VIOLENT REACTION OR EXPLOSION: No**

**Protective Clothing;** Refer to Personal Protection/  
**Appropriate Measures;** No Data  
**Evacuate;** No Data

**OTHER INFORMATION:**

No other health hazards known.  
**Unusual Fire & Explosion Hazards:** Toxic fumes; gases or vapours may evolve on Burning.

**CONTACT POINT:**

Peter Maher  
 Liquid Intelligents Pty Ltd  
 14 Underwood Ave Botany, NSW, 2019, Australia  
 Ph 02-9700 0880. Fax 02-9700 0881.  
 Mob 0423 593 261

**24 Hour Emergency Tel No.** Above Mobile Phones  
**Emergency Services** Dial 000

**Disclaimer:**

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