

# WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)

Autoserv NZ Ltd

Chemwatch Hazard Alert Code: 2

Chemwatch: 5225-91

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Safety Data Sheet according to HSNO Regulations

S.GHS.NZL.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

|                                      |   |
|--------------------------------------|---|
| <b>Product name</b>                  | WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P) |
| <b>Synonyms</b>                      | Product Codes: 52520, 52505                     |
| <b>Other means of identification</b> | Not Available                                   |

### Relevant identified uses of the substance or mixture and uses advised against

|                                 |  |
|---------------------------------|--|
| <b>Relevant identified uses</b> | Radiator coolant concentrate, needed to be diluted down by water as per label. |
|---------------------------------|--|

### Details of the supplier of the safety data sheet

|                                |  |   |
|--------------------------------|--|---|
| <b>Registered company name</b> | Autoserv NZ Ltd  | ITW AAMTech Australia                             |
| <b>Address</b>                 | Unit 2/38 Trugood Drv, East Tamaki AUCK 2013 New Zealand | 1-9 Nina Link, Dandenong South VIC 3175 Australia |
| <b>Telephone</b>               | 0800 438 996   | 1800 177 989                                      |
| <b>Fax</b>                     | Not Available  | 1800 308 556                                      |
| <b>Website</b>                 | Not Available  | www.aamtech.com.au                                |
| <b>Email</b>                   | warehouse@autoserv.co.nz                                 | info@aamtech.com.au                               |

### Emergency telephone number

|  |                |                |
|--|----------------|----------------|
| <b>Association / Organisation</b>        | Not Available  | Not Available  |
| <b>Emergency telephone numbers</b>       | 0800 2436 2255 | 1800 039 008   |
| <b>Other emergency telephone numbers</b> | 0800 764 766   | 0800 2436 2255 |

## SECTION 2 HAZARDS IDENTIFICATION


### Classification of the substance or mixture

**Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.**

|                                    |  |
|------------------------------------|--|
| <b>Classification [2]</b>          | Acute Toxicity (Oral) Category 4, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 1, Specific target organ toxicity - repeated exposure Category 1, Acute Vertebrate Hazard Category 3 |
| <b>Legend:</b>                     | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI   |
| <b>Gazetted by EPA New Zealand</b> | 6.1D (oral), 6.4A, 6.9A (oral), 9.3C   |

### Label elements

WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)

|                    |   |
|--------------------|---|
| GHS label elements |  |
|--------------------|---|

|             |        |
|-------------|--------|
| SIGNAL WORD | DANGER |
|-------------|--------|

**Hazard statement(s)**

|      |   |
|------|---|
| H302 | Harmful if swallowed.   |
| H319 | Causes serious eye irritation.                                  |
| H370 | Causes damage to organs.  |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H433 | Harmful to terrestrial vertebrates                              |

**Precautionary statement(s) Prevention**

|      |   |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.  |
| P103 | Read label before use.  |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                      |

**Precautionary statement(s) Response**

|                |  |
|----------------|--|
| P307+P311      | IF exposed: Call a POISON CENTER or doctor/physician.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314           | Get medical advice/attention if you feel unwell.   |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |

**Precautionary statement(s) Storage**

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

**Precautionary statement(s) Disposal**

|      |   |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No        | %[weight] | Name                                       |
|---------------|-----------|--|
| 107-21-1      | >60       | <u>ethylene glycol</u>                     |
| Not Available | <10       | Ingredients determined not to be hazardous |
| Not Available | <1        | bittering agent                            |
| 7732-18-5     | 10-30     | <u>water</u>                               |

**SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

**Description of first aid measures**

|             |   |
|-------------|---|
| Eye Contact | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
|-------------|---|

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|                     |  |
|---------------------|--|
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>  |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>▶ Urgent hospital treatment is likely to be needed.</li> <li>▶ <b>If swallowed do NOT induce vomiting.</b></li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Transport to hospital or doctor without delay.</li> </ul> |

**Indication of any immediate medical attention and special treatment needed**

For acute or short term repeated exposures to ethylene glycol:

- ▶ Early treatment of ingestion is important. Ensure emesis is satisfactory.
- ▶ Test and correct for metabolic acidosis and hypocalcaemia.
- ▶ Apply sustained diuresis when possible with hypertonic mannitol.
- ▶ Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- ▶ Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- ▶ Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- ▶ Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- ▶ Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- ▶ Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.

Laitinen J., et al: *Occupational & Environmental Medicine* 1996; 53, 595-600

**SECTION 5 FIREFIGHTING MEASURES**

**Extinguishing media**

- ▶ Water spray or fog.
- ▶ Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).

**Special hazards arising from the substrate or mixture**

|                             |   |
|-----------------------------|---|
| <b>Fire Incompatibility</b> | Avoid contamination with strong oxidising agents as ignition may result |
|-----------------------------|---|

**Advice for firefighters**

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>   |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul> <p>Decomposes on heating and produces toxic fumes of; carbon dioxide (CO<sub>2</sub>) other pyrolysis products typical of burning organic material</p> |

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | Slippery when spilt. <ul style="list-style-type: none"> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> </ul>                      |
| <b>Major Spills</b> | Slippery when spilt.<br>Remove all ignition sources.<br>Minor hazard. <ul style="list-style-type: none"> <li>▶ Clear area of personnel.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Control personal contact with the substance, by using protective equipment as required.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling**

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | Remove all ignition sources. <ul style="list-style-type: none"> <li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> <li>▶ Limit all unnecessary personal contact.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Avoid contact with incompatible materials.</li> </ul> |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ No smoking, naked lights or ignition sources.</li> <li>▶ Store in a cool, dry, well-ventilated area.</li> </ul>   |

**Conditions for safe storage, including any incompatibilities**

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Polyethylene or polypropylene container.</li> <li>▶ Packing as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul> |
| <b>Storage incompatibility</b> | Avoid storage with oxidisers <ul style="list-style-type: none"> <li>▶ Avoid strong acids, bases.</li> </ul>   |

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

**INGREDIENT DATA**

| Source   | Ingredient      | Material name                     | TWA           | STEL          | Peak               | Notes         |
|--|-----------------|-----------------------------------|---------------|---------------|--------------------|---------------|
| New Zealand Workplace Exposure Standards (WES) | ethylene glycol | Ethylene glycol (vapour and mist) | Not Available | Not Available | 127 mg/m3 / 50 ppm | Not Available |

**EMERGENCY LIMITS**

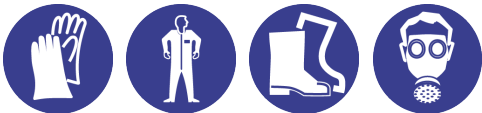
| Ingredient      | Material name   | TEEL-1 | TEEL-2 | TEEL-3 |
|-----------------|-----------------|--------|--------|--------|
| ethylene glycol | Ethylene glycol | 10 ppm | 40 ppm | 60 ppm |

| Ingredient                                 | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| ethylene glycol                            | Not Available | Not Available |
| Ingredients determined not to be hazardous | Not Available | Not Available |
| bittering agent                            | Not Available | Not Available |

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|       |               |               |
|-------|---------------|---------------|
| water | Not Available | Not Available |
|-------|---------------|---------------|

**Exposure controls**

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | General exhaust is adequate under normal operating conditions.  |
| <b>Personal protection</b>              |    |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul> |
| <b>Skin protection</b>                  | See Hand protection below   |
| <b>Hands/feet protection</b>            | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>  |
| <b>Body protection</b>                  | See Other protection below  |
| <b>Other protection</b>                 | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> </ul>  |
| <b>Thermal hazards</b>                  | Not Available   |

**Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|   |   |  |                |
|---|---|--|----------------|
| <b>Appearance</b>                                   | Clear green liquid with slight odour; mixes with water. |  |                |
| <b>Physical state</b>                               | Liquid  | <b>Relative density (Water = 1)</b>            | 1.12           |
| <b>Odour</b>  | Not Available   | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available   | <b>Auto-ignition temperature (°C)</b>          | Not Available  |
| <b>pH (as supplied)</b>                             | 8.6 approx.   | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | -19 approx.   | <b>Viscosity (cSt)</b>                         | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b> | 165 approx.   | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | ~125  | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available   | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Applicable  | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | 15.3  | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available  |
| <b>Lower Explosive Limit (%)</b>                    | 3.2   | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | Not Available   | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water (g/L)</b>                    | Miscible  | <b>pH as a solution (1%)</b>                   | Not Available  |
| <b>Vapour density (Air = 1)</b>                     | Not Available   | <b>VOC g/L</b>                                 | Not Available  |

**SECTION 10 STABILITY AND REACTIVITY**

|                   |               |
|-------------------|---------------|
| <b>Reactivity</b> | See section 7 |
|-------------------|---------------|

## WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)

|   |  |
|---|--|
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7  |
| <b>Conditions to avoid</b>                | See section 7  |
| <b>Incompatible materials</b>             | See section 7  |
| <b>Hazardous decomposition products</b>   | See section 5  |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | <p>The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.</p> <p>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.</p> <p>Inhalation of vapour is more likely at higher than normal temperatures.</p> |
| <b>Ingestion</b>    | <p>Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.</p> <p>If swallowed, the toxic effects of glycols (dihydric alcohols) are similar to those of alcohol, with depression of the central nervous system, nausea, vomiting, and degenerative changes in the liver and kidney.</p>   |
| <b>Skin Contact</b> | <p>The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p>   |
| <b>Eye</b>          | <p>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p>   |
| <b>Chronic</b>      | <p>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.</p> <p>There is some evidence from animal testing that exposure to this material may result in reduced fertility.</p> <p>There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis).</p>                               |

|  |  |  |
|--|--|--|
| <b>WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)</b> | <b>TOXICITY</b>  | <b>IRRITATION</b>                      |
|  | Not Available  | Not Available                          |
| <b>ethylene glycol</b>                                 | <b>TOXICITY</b>  | <b>IRRITATION</b>                      |
|  | Dermal (rabbit) LD50: 9530 mg/kg <sup>[2]</sup>  | Eye (rabbit): 100 mg/1h - mild         |
|  | Inhalation (rat) LC50: 50.1 mg/L/8 hr <sup>[2]</sup>   | Eye (rabbit): 12 mg/m <sup>3</sup> /3D |
|  | Oral (rat) LD50: 4700 mg/kg <sup>[2]</sup>   | Eye (rabbit): 1440mg/6h-moderate       |
|  |  | Eye (rabbit): 500 mg/24h - mild        |
|  |  | Skin (rabbit): 555 mg(open)-mild       |
| <b>water</b>   | <b>TOXICITY</b>  | <b>IRRITATION</b>                      |
|  | Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>   | Not Available                          |
| <b>Legend:</b>   | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |  |

|                        |  |
|------------------------|--|
| <b>ETHYLENE GLYCOL</b> | <p>For ethylene glycol:</p> <p>Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited information suggests that it is also absorbed through the respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is distributed throughout the body according to total body water. In most mammalian species, including humans, ethylene glycol is initially metabolised by alcohol.</p> <p>[Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells.</p> |
| <b>WATER</b>           | No significant acute toxicological data identified in literature search.   |

WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✓ | Carcinogenicity          | ⊘ |
| Skin Irritation/Corrosion         | ⊘ | Reproductivity           | ⊘ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ✓ |
| Respiratory or Skin sensitisation | ⊘ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ⊘ | Aspiration Hazard        | ⊘ |

Legend: **✗** – Data available but does not fill the criteria for classification  
**✓** – Data required to make classification available  
**⊘** – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| Ingredient      | Endpoint | Test Duration (hr) | Species                       | Value        | Source |
|-----------------|----------|--------------------|-------------------------------|--------------|--------|
| ethylene glycol | LC50     | 96                 | Fish                          | 2284.940mg/L | 3      |
| ethylene glycol | EC50     | 48                 | Crustacea                     | >100mg/L     | 2      |
| ethylene glycol | EC50     | 96                 | Algae or other aquatic plants | 3536mg/L     | 2      |
| ethylene glycol | EC50     | Not Applicable     | Crustacea                     | =10mg/L      | 1      |
| ethylene glycol | NOEC     | 72                 | Algae or other aquatic plants | >100mg/L     | 2      |
| water           | LC50     | 96                 | Fish                          | 897.520mg/L  | 3      |
| water           | EC50     | 96                 | Algae or other aquatic plants | 8768.874mg/L | 3      |
| water           | EC50     | 384                | Crustacea                     | 199.179mg/L  | 3      |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

**DO NOT** discharge into sewer or waterways.

Persistence and degradability

| Ingredient      | Persistence: Water/Soil   | Persistence: Air            |
|-----------------|---------------------------|-----------------------------|
| ethylene glycol | LOW (Half-life = 24 days) | LOW (Half-life = 3.46 days) |
| water           | LOW                       | LOW                         |

Bioaccumulative potential

| Ingredient      | Bioaccumulation      |
|-----------------|----------------------|
| ethylene glycol | LOW (BCF = 200)      |
| water           | LOW (LogKOW = -1.38) |

Mobility in soil

| Ingredient      | Mobility         |
|-----------------|------------------|
| ethylene glycol | HIGH (KOC = 1)   |
| water           | LOW (KOC = 14.3) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

|                              |   |
|------------------------------|---|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Authority for disposal.</li> <li>▶ Bury or incinerate residue at an approved site.</li> <li>▶ Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|------------------------------|---|

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

## WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

|                  |                |
|------------------|----------------|
| Marine Pollutant | NO             |
| HAZCHEM          | Not Applicable |

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance can be managed under the controls specified in the Transfer Notice or alternatively it may be managed using the conditions specified in an applicable Group Standard.

| HSR Number | Group Standard |
|------------|----------------|
| HSR006385  | Not Available  |

## ETHYLENE GLYCOL(107-21-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act -  
Classification of Chemicals

New Zealand Workplace Exposure Standards (WES)

New Zealand Inventory of Chemicals (NZIoC)

## WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

## Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

| Hazard Class   | Quantity beyond which controls apply for closed containers | Quantity beyond which controls apply when use occurring in open containers |
|----------------|--|--|
| Not Applicable | Not Applicable   | Not Applicable   |

## Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

Refer Group Standards for further information

## Tracking Requirements

Not Applicable

| National Inventory            | Status                     |
|-------------------------------|----------------------------|
| Australia - AICS              | Y                          |
| Canada - DSL                  | Y                          |
| Canada - NDSL                 | N (water; ethylene glycol) |
| China - IECSC                 | Y                          |
| Europe - EINEC / ELINCS / NLP | Y                          |
| Japan - ENCS                  | N (water)                  |
| Korea - KECL                  | Y                          |

Continued...



## WYNN'S HEAVY DUTY CONCENTRATE COOLANT GREEN (P)

|                     |  |
|---------------------|--|
| New Zealand - NZIoC | Y  |
| Philippines - PICCS | Y  |
| USA - TSCA          | Y  |
| <b>Legend:</b>      | <i>Y = All ingredients are on the inventory<br/>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i> |

**SECTION 16 OTHER INFORMATION****Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net](http://www.chemwatch.net)

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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