**Section 1 - Identification of Material and Supplier**

- **Chemical Nature:** Adjuvant
- **Trade Name:** CARMEL CARRIER
- **Product Use:** Fog & ULV Carrier and anti evaporator
- **Supplier:** Barmac (a Division of Amgrow Pty Ltd)
  - Unit B2a, 3-29 Birnie Avenue
  - Lidcombe NSW 2141
  - Phone: (02) 9395 1200 (Office hours), Fax: (02) 9395 1241
  - www.amgrow.com.au

**Creation Date:** December 2016 (valid for 5 years from this date)

**Section 2 - Hazards Identification**

**Statement of Hazardous Nature**

- **NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA**
- **NOT A DANGEROUS GOOD ACCORDING TO THE ADG CODE, IATA OR IMDG/IMSBC CRITERIA**

- **Risk Phrases:** Not Hazardous - No criteria found.
- **Safety Phrases:** Not Hazardous - No criteria found.
- **SUSMP Classification:** Not scheduled
- **ADG Classification:** None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.
- **UN Number:** None allocated

**GHS Signal word:** NONE. Not hazardous.

**PREVENTION**
- P102: Keep out of reach of children.
- P262: Do not get in eyes, on skin, or on clothing.
- P281: Use personal protective equipment as required.

**RESPONSE**
- P353: Rinse skin or shower with water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

**STORAGE**
- P402+P404: Store in a dry place. Store in a closed container.

**DISPOSAL**
- P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

**Emergency Overview**

**Physical Description & colour:** Viscous blue liquid

**Odour:** Slight odour

**Major Health Hazards:** No significant risk factors have been found for this product in normal use.

**Section 3 - Composition/Information on Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Conc %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol</td>
<td>112-27-6</td>
<td></td>
</tr>
<tr>
<td>Acid Blue 9, disodium salt</td>
<td>3844-45-9</td>
<td>100</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.
Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: If inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, if in doubt contact a Poisons Information Centre or doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: At high temperatures the product is a combustible liquid. It will not burn unless preheated. As a fog or mist do not exceed a fog/mist : air ratio of 4 litres of product to 1500m³ of confined space..

Hazardous decomposition products: None known

Extinguishing Media: Use extinguishing media suited to burning materials.

Fire Fighting: Wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: 177°C

Upper Flammability Limit: No data

Lower Flammability Limit: No data

Auto ignition temperature: No data

Flammability Class: C2 combustible liquid

Section 6 - Accidental Release Measures

Accidental release: To avoid accidents, clean up immediately. Slippery when wet. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Prevent spillage from entering drains or water courses. This material may be suitable for approved landfill.

Section 7 - Handling and Storage

Handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store below 30°C. Store away from incompatible materials described in Section 10. Keep containers closed when not in use – check regularly for leaks.

Section 8 - Exposure Controls and Personal Protection

Exposure Limits TWA (mg/m³P3) STEL (mg/m³P3) ADI (mg/Kg/day) NOEL (mg/Kg/day)

Exposure limits have not been set by SWA for any ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term “peak” is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, 31st March 2012
Personal Protection
The following Australian Standards will provide general advice regarding safety clothing and equipment:
No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.
Ventilation: Avoid high mist concentration and provide local exhaust ventilation where necessary.
Eye Protection: Eye protection such as protective glasses or goggles should be worn
Skin Protection: Wear gloves or gauntlets and long sleeves when using this product to protect against skin irritation
Respirator: Use P2 type canister respirator where high concentrations of airborne dust is present
Provision of eye wash facilities and safety shower recommended.
Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

Section 9 - Physical and Chemical Properties:

Physical Description & colour: Viscous Blue Liquid
Odour: Mild odour.
Boiling Point: 228°C.
Freezing/Melting Point: Not available
Volatiles: No data
Vapour Pressure: 5.18 (25°C)
Vapour Density: Not available
Specific Gravity: 1.12@15°C
Water Solubility: Miscible
pH: No data
Odour Threshold: No data.
Evaporation Rate: Not available.
Viscosity: No data
Auto ignition temp: Not applicable - does not burn

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.
Conditions to Avoid: Heat, flames, sparks.
Incompatibilities: Avoid strong oxidising agents.
Fire Decomposition Products: May evolve oxides of carbon
Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Target Organs: There is no data to hand indicating any particular target organs.
Potential Health Effects
Inhalation: Inhalation of mist of this material may cause respiratory tract irritation.
Skin Contact: May be an irritant characterised by redness, dryness & inflammation.
Eye Contact: This product may be irritating to eyes.
Ingestion: May cause nausea, vomiting headache, drowsiness, symptoms of drunkenness, kidney damage, brain damage, convulsion and coma.
Carcinogen Status:
SWA: No significant ingredient is classified as carcinogenic by SWA.
NTP: No significant ingredient is classified as carcinogenic by NTP.
IARC: No significant ingredient is classified as carcinogenic by IARC.
Classification of Hazardous Ingredients
No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.
Section 12 - Ecological Information

The product was not tested. The data applies to Triethylene glycol concentrate only

Ecotoxicity: This material is expected to be slightly toxic to marine life. LC50/96-hour values for fish are between 10 and 100mg/L.

Environmental Fate: When released into the soil, this material is expected to readily biodegrade, is expected to leach into ground water. Readily degradable in the air and is expected to have a half-life expectancy of less than a day.

Environmental Degradation: Not expected to bioaccumulate.

Section 13 - Disposal Considerations

Disposal: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service. This product can usually be used for its intended purpose unless contaminated by substances that make it unsuited.

Section 14 - Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADG Code</td>
<td>Australian Code for the Transport of Dangerous Goods by Road and Rail</td>
</tr>
<tr>
<td>AICS</td>
<td>Australian Inventory of Chemical Substances</td>
</tr>
<tr>
<td>ASCC</td>
<td>Australian Safety &amp; Compensation Council</td>
</tr>
<tr>
<td>CAS number</td>
<td>Chemical Abstracts Service Registry Number</td>
</tr>
<tr>
<td>Hazchem Number</td>
<td>Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Authority</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Good</td>
</tr>
<tr>
<td>IMSBC</td>
<td>International Maritime Solid Bulk Code</td>
</tr>
<tr>
<td>NOHSC</td>
<td>National Occupational Health and Safety Commission</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program (USA)</td>
</tr>
<tr>
<td>R-Phrase</td>
<td>Risk Phrase</td>
</tr>
<tr>
<td>SUSMP</td>
<td>Standard for the Uniform Scheduling of Medicines &amp; Poisons</td>
</tr>
<tr>
<td>SWA</td>
<td>Safe Work Australia (formerly ASCC and NOHSC)</td>
</tr>
<tr>
<td>UN Number</td>
<td>United Nations Number</td>
</tr>
</tbody>
</table>

Please read all labels carefully before using product. This SDS is prepared in accord with the SWA document “Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice” (December 2011) Copyright © Amgrow Pty Ltd, December 2016

SAFETY DATA SHEET

Issued by: Amgrow Pty Ltd | Phone: (02) 9395 1200 (office hours)
Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)