

**Safety Data Sheet**  
according to GHS version 7

Printing date 08.09.2022

Version number 1

Revision: 01.09.2022

**1 Identification**

- **Product identifier**
- **Trade name:** Aminoplus
- **Article number:** DAUP0018
- **Relevant identified uses of the substance or mixture and uses advised against** For use in the agricultural sector.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Company: Omnia Specialities Australia Pty Ltd  
Address: Tramway Road  
MORWELL VIC 3840  
Telephone Number: +61-3 5133 9118  
Facsimile Number: +61-3 5133 9114
- **Further information obtainable from:** info@omnia.net.au
- **Emergency telephone number:**  
ISS First Response  
+61 3 8796 3688  
AEDT 8 am to 4 pm (AEDT is UTC + 11)

**2 Hazard(s) Identification**

- **Classification of the substance or mixture**



Skin Sens. 1B H317 May cause an allergic skin reaction.

Acute Tox. 5 H333 May be harmful if inhaled.

Skin Corr. 3 H316 Causes mild skin irritation.

- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Formic acid
- **Hazard statements**  
H333 May be harmful if inhaled.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
If medical advice is needed, have product container or label at hand.

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- Keep out of reach of children.  
 Read carefully and follow all instructions.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wear protective gloves.  
 IF INHALED: Call a doctor if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Specific treatment (see on this label).  
 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

|                                     |  |         |
|-------------------------------------|--|---------|
| CAS: 7664-38-2<br>EINECS: 231-633-2 | PHOSPHORIC ACID 85%<br>Skin Corr. 1B, H314; Eye Dam. 1, H318<br>Acute Tox. 4, H302<br>Acute Tox. 5, H313; Acute Tox. 5, H333 | 2.5-10% |
| CAS: 64-18-6<br>EINECS: 200-579-1   | Formic acid<br>Flam. Liq. 3, H226<br>Acute Tox. 3, H331<br>Skin Corr. 1A, H314; Eye Dam. 1, H318<br>Acute Tox. 4, H302       | ≤2.5%   |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.
- **Other hazards that do not result in classification** None

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:**  
 Do not leave affected persons unattended.  
 Show this safety data sheet to the doctor in attendance
- **After inhalation:**  
 If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.
- **After eye contact:**  
 Rinse opened eye under running water for at least 15 minutes. Get medical attention if irritation persists.
- **After swallowing:** Rinse out mouth and then drink plenty of water. If symptoms persist, call doctor.
- **Information for doctor:** Treat supportive and symptomatically
- **Most important symptoms and effects, both acute and delayed**  
 May cause severe allergic reaction with respiratory and cardiovascular symptoms as well as skin reactions.  
 May irritate the respiratory system, eyes and skin.  
 Ingestion may cause nausea, vomiting abdominal cramps and diarrhea.  
 Prolonged exposure to the eyes may cause conjunctivitis.

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- **Indication of any immediate medical attention and special treatment needed**  
In case of allergy act fast and treat according to specific allergic symptom presenting.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions. Water spray jet, foam. Dry fire-extinguishing substance.
- **Advice for firefighters** Material not combustable
- **Protective equipment:** Use breathing apparatus with independent air supply

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing according to section 8.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:**  
Prevent from spreading by e.g. damming in.  
Do not allow product to reach sewage system or any water course.  
In case of seepage into the ground inform responsible authorities.
- **Methods and material for containment and cleaning up:**  
Collect the product mechanically (vacuum or pump). Deposit in recipient for recuperation.  
Uncontaminated spilled material may be reused  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation / exhaustion at the workplace  
Prevent the formation of earosols
- **Information about fire - and explosion protection:** The product is not flammable.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe the rules usually applicable when handling chemicals.
- **Information about storage in one common storage facility:**  
Dry and tightly closed  
Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed in a dry well-ventilated place.
- **Specific end use(s)** Agricultural

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## 8 Exposure controls and personal protection

**· Additional information about design of technical facilities:**

Ensure eyewash stations and safety showers are close to the workstation location.

**· Control parameters**

**· Ingredients with limit values that require monitoring at the workplace:**

**7664-38-2 PHOSPHORIC ACID 85%**

WES Short-term value: 3 mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

**64-18-6 Formic acid**

WES Short-term value: 19 mg/m<sup>3</sup>, 10 ppm

Long-term value: 9.4 mg/m<sup>3</sup>, 5 ppm

**· Additional information:** The lists valid during the making were used as basis.

**· Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**· Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:** Safety glasses.

**· Body protection:** Protective work clothing

## 9 Physical and Chemical Properties

**· Information on basic physical and chemical properties**

**· General Information**

**· Appearance:**

**Form:** Liquid

**Colour:** Dark green

**· Odour:** Fish-like

**· Odour threshold:** Not determined.

**· pH-value at 20 °C:** 4

**· Change in condition**

**Melting point/freezing point:** Undetermined.

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|  |   |
|--|---|
| <b>Initial boiling point and boiling range:</b> 100 °C |   |
| · <b>Flash point:</b>                                  | Not applicable.                               |
| · <b>Flammability (solid, gas):</b>                    | Not applicable.                               |
| · <b>Decomposition temperature:</b>                    | Not determined.                               |
| · <b>Auto-ignition temperature:</b>                    | Product is not selfigniting.                  |
| · <b>Explosive properties:</b>                         | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                             |   |
| <b>Lower:</b>  | Not determined.                               |
| <b>Upper:</b>  | Not determined.                               |
| · <b>Vapour pressure:</b>                              | Not determined.                               |
| · <b>Density at 20 °C:</b>                             | 1.09 g/cm <sup>3</sup>                        |
| · <b>Relative density</b>                              | Not determined.                               |
| · <b>Vapour density</b>                                | Not determined.                               |
| · <b>Evaporation rate</b>                              | Not determined.                               |
| · <b>Solubility in / Miscibility with water:</b>       | Fully miscible.                               |
| · <b>Partition coefficient: n-octanol/water:</b>       | Not determined.                               |
| · <b>Viscosity:</b>                                    |   |
| <b>Dynamic:</b>  | Not determined.                               |
| <b>Kinematic:</b>                                      | Not determined.                               |
| · <b>Solvent content:</b>                              |   |
| <b>Water:</b>  | 4.8 %   |
| <b>VOC (EC)</b>  | 0.00 %  |
| · <b>Other information</b>                             | No further relevant information available.    |

## 10 Stability and Reactivity

- **Reactivity** Stable under normal conditions
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Incompatible materials:** Strong oxidizing agents

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

### LD/LC50 values relevant for classification:

#### 7664-38-2 PHOSPHORIC ACID 85%

|            |          |                                       |
|------------|----------|---------------------------------------|
| Oral       | LD50     | >300 mg/kg (ATE)<br>1,530 mg/kg (rat) |
| Dermal     | LD50     | 2,740 mg/kg (rabbit)                  |
| Inhalative | LC50 1hr | >850 mg/L (rat)                       |

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- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** Sensitisation possible through inhalation.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** None

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

7664-38-2 PHOSPHORIC ACID 85%

|      |  |
|------|--|
| EC50 | >1,000 mg/kg (Aquatic Organisms)<br>3 hour |
|------|--|

|            |   |
|------------|---|
| EC50 96 hr | >100 mg/L (Algae ( <i>Chlorella vulgaris</i> )) |
|------------|---|

|           |                                   |
|-----------|-----------------------------------|
| EC50 48hr | >100 mg/l (Aquatic invertebrates) |
|-----------|-----------------------------------|

- **Persistence and degradability** Miscible with water. Persistence is unlikely
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** Soluble in water
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Disposal according to local/ official/ national regulations.  
Dilute and use as fertilizer
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |                                  |      |
|----------------------------------|------|
| · <b>UN-Number</b>               | Void |
| · <b>ADG, IMDG, IATA</b>         | Void |
| · <b>UN proper shipping name</b> | Void |
| · <b>ADG, IMDG, IATA</b>         | Void |

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|   |                 |
|---|-----------------|
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>ADG, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>  | Void            |
| · <b>Packing group</b>  |                 |
| · <b>ADG, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>   | Not applicable. |
| · <b>Special precautions for user</b>                                       | Not applicable. |
| · <b>ERG No.</b>  | None            |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | Void            |

## 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

|           |                     |
|-----------|---------------------|
|           | Purakelp            |
|           | Water               |
| 7664-38-2 | PHOSPHORIC ACID 85% |
| 64-18-6   | Formic acid         |

· **Standard for the Uniform Scheduling of Medicines and Poisons**

|           |                     |        |
|-----------|---------------------|--------|
| 7664-38-2 | PHOSPHORIC ACID 85% | S5, S6 |
| 64-18-6   | Formic acid         | S5     |

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

Formic acid

· **Hazard statements**

H333 May be harmful if inhaled.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read carefully and follow all instructions.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves.

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*IF INHALED: Call a doctor if you feel unwell.**If skin irritation or rash occurs: Get medical advice/attention.**Specific treatment (see on this label).**Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

*H226 Flammable liquid and vapour.**H302 Harmful if swallowed.**H313 May be harmful in contact with skin.**H314 Causes severe skin burns and eye damage.**H318 Causes serious eye damage.**H331 Toxic if inhaled.**H333 May be harmful if inhaled.*

- **Contact:**

- **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 5: Acute toxicity – Category 5**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Corr. 3: Skin corrosion/irritation – Category 3**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1B: Skin sensitisation – Category 1B*

- **\* Data compared to the previous version altered.**