

**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> | Ammonium Carbonate |             |                    |                        | <b>Code</b>      | 1200                         |
| <b>CAS#</b>    | <b>HSNO#</b>       | <b>UN #</b> | <b>DG Class/es</b> | <b>Packing group #</b> | <b>Tracking?</b> | <b>Handlers Certificate?</b> |
| 506-87-6       | HSR002763          | -           | -                  | -                      | No               | No                           |

**Recommended use:** Laboratory Investigations

**2. Hazards identification**

2.1 GHS Classification

Acute toxicity, Oral (Category D)  
 Aquatic toxicity (Acute or Chronic) (Category D)

2.2 GHS Label elements, including precautionary statements



Signal word **Warning**

Hazard statement(s)

H302 Harmful if swallowed.  
 H402 Harmful to aquatic life.

Precautionary statement(s)

Prevention

P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 Rinse mouth.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

None

**3. Composition/information on ingredients**

3.1 Substances Synonyms: Hartshorn salt

Formula: CH<sub>8</sub>N<sub>2</sub>O<sub>3</sub>

Molecular weight: 96.09 g/mol

| Component          | Concentration |
|--------------------|---------------|
| Ammonium carbonate |               |
| CAS No. 506-87-6   | <=100%        |

**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

Flush eyes with water as a precaution.

##### 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 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

#### 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.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 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.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air sensitive.

#### 7.3 Specific end use(s)

No data available

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Occupational Exposure Limits

We are not aware of any national exposure limit.

## 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

Safety glasses with side-shields.

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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

For nuisance exposures use a particle respirator. For higher level protection use respirator cartridges. 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: powder

Colour: colourless

b) Odour

Ammonia odour

c) Odour Threshold

No data available

d) pH

No data available

e) Melting point/freezing point

Melting point/range: 58 °C

f) Initial boiling point and boiling range

No data available

g) Flash point

No data available

h) Evaporation rate

No data available

i) Flammability (solid, gas)

No data available

j) Upper/lower flammability or explosive limits

No data available  
k) Vapour pressure  
No data available  
l) Vapour density  
No data available  
m) Relative density  
No data available  
n) Water solubility slightly soluble  
o) Partition coefficient: n-octanol/water  
log Pow: 0.184  
p) Auto-ignition temperature  
No data available  
q) Decomposition temperature  
No data available  
r) Viscosity  
No data available

## **10. Stability and reactivity**

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong acids

### 10.6 Hazardous decomposition products

Other decomposition products

No data available

## **11. Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 2,150 mg/kg

LD50 Oral - Rat - female - 1,800 mg/kg

LD50 Dermal - Rat - > 2,000 mg/kg

LD50 Intravenous - Mouse - 96 mg/kg

Remarks: Lungs, Thorax, or Respiration: Respiratory stimulation. Behavioural: Convulsions or effect on seizure threshold.

Skin corrosion/irritation

Skin - in vitro assay - No skin irritation - OECD Test Guideline 439

Serious eye damage/eye irritation

Eyes - Rabbit - No eye irritation - OECD Test Guideline 405

Respiratory or skin sensitisation

In vivo assay - Mouse - OECD Test Guideline 429 - Does not cause skin sensitisation.

Remarks: Read-across (Analogy)

Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

Genotoxicity in vitro - Ames test - Salmonella typhimurium - with and without metabolic activation - negative

Carcinogenicity

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

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

Harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: BP1925000

## **12. Ecological information**

### **12.1 Toxicity**

Toxicity to fish

LC50 - Fish - 119.46 mg/l - 96 h Remarks: Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates

LC50 - Daphnia magna (Water flea) - 324.9 mg/l - 48 h

Toxicity to algae static test

EC50 - Pseudokirchneriella subcapitata (green algae) - 252.92 mg/l - 72 h static test

NOEC - Pseudokirchneriella subcapitata (green algae) - 50 mg/l - 72 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**

No data available

### **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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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                    | -  | -  | -   |
| 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        | No   | No   | No  |
| 14.6 | Special precautions for user | No data available.                         |  |   |

#### 15. Regulatory information

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

National regulatory information

HSNO Approval Code: HSR002763

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group

Standard 2006

Tracking Required: not required

Approved Handler Cert.: 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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