

# SAFETY DATA SHEET

# KEMAUS

## AMMONIUM THIOCYANATE AR/ACS

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### 1. Identification of the substance/preparation and of the company or firm

- 1.1 Identification of the substance or preparation:  
Catalogue no. : KA58  
Product name : Ammonium thiocyanate AR/ACS
- 1.2 Use of the substance/preparation: For laboratory utilisation, analysis, research and fine chemistry.
- 1.3 Identification of the company or firm: Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia  
Tel no. (61) 2 98998169  
Fax no. (61) 2 98997976
- 1.4 Emergency telephone: (61) 2 98998169 (9:00am - 5:00 pm) [ Office hours ]
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### 2. Identification of dangers

- 2.1 Classification of the substance.  
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)  
Acute toxicity (Inhalation), Category 4 : Harmful if inhaled.  
Acute toxicity (Dermal), Category 4 : Harmful in contact with skin.  
Acute toxicity (Oral), Category 4 : Harmful if swallowed.  
Hazardous to the aquatic environment (Chronic hazard), Category 3 : Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements.

Hazard pictograms



Signal words : Warning.

EU Hazard statements (EUH):

EUH032: Contact with acids liberates very toxic gas.

Hazard statements (H) :

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

Precautionary statements (P) :

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash...thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3 Other hazards.

None known.

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### 3. Composition/information on ingredients

#### 3.1 Substance / Preparation.

Ammonium thiocyanate

Formular:  $\text{NH}_4\text{SCN}$

CAS No : 1762-95-4

Molecular weight : 76.12

Contains no other components or impurities which will influence the classification of the product.

#### 3.2 Mixture.

Not applicable.

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### 4. First-aid measures

#### 4.1 Description of first aid measures.

Inhaling: Take the person out into the fresh air. If unconscious, seek medical assistance.

Skin contact: Remove contaminated clothing. Wash skin with water and soap or a suitable skin cleaner.  
NEVER use solvents or thinners.

- Eyes: Wash with plenty of water, keeping eyelids open. Seek medical assistance.
- Ingestion: Never induce vomiting. Seek immediate medical assistance.
- 4.2 Most important symptoms and effects, both acute and delayed.  
Harmful Product, prolonged contact can cause allergic reactions, irritation and redness.
- 4.3 Indication of any immediate medical attention and special treatment needed.  
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.
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## 5. Fire-fighting measures

- 5.1 Suitable extinguishing media.  
Recommended extinguishing methods: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- 5.2 Special hazards arising from the substance.  
Special risks: Under fire conditions, hazardous fumes will be present. Exposure to combustion or decomposition products can be harmful to your health.
- 5.3 Advice for firefighters.  
Do not enter fire area without proper protective equipment, including respiratory protection.  
Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.
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## 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures.  
For exposure control and individual protection measures, see section 8.
- 6.2 Environmental precautions.  
Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3 Methods and material for containment and cleaning up.  
The contaminated area should be immediately cleaned with an appropriate de-contaminator. Store away from other materials.
- 6.4 Reference to other sections.  
For exposure control and individual protection measures, see section 8.  
For later elimination of waste, follow the recommendations under section 13.
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## 7. Handling and storage

- 7.1 Precautions for safe handling.  
Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours, spray.  
Do not eat, drink or smoke when using this product. Keep the product in containers made of a material identical to the original.
- 7.2 Conditions for safe storage, including any incompatibilities.  
Well sealed containers. Dry atmosphere. Away from sources of ignition and heat. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.
- 7.3 Specific end use(s).  
None.
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## 8. Exposure controls/personal protection

- 8.1 Control parameters.  
The product does NOT contain substances with Professional Exposure Environmental Limit Values:  
The product does NOT contain substances with Biological Limit Values.
- 8.2 Exposure controls.  
Personal protection : Avoid all unnecessary exposure.  
Respiratory protection : Wear approved mask.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Hygiene measures : Remove contaminated clothing. Wash hands before breaks and when the job is done.
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## 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties.
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|------------------|--------------------|
| Appearance:      | Solid.             |
| Colour:          | White crystalline. |
| Odour:           | Odourless.         |
| Odour threshold: | No data available. |
| pH value:        | 4.8 - 5.8          |
| Melting Point:   | 150°C              |
| Boiling Point:   | No data available. |
| Flash point:     | No data available. |

Flammability (solid, gas) :	No data available.
Evaporation rate :	No data available.
Vapour pressure:	No data available.
Vapour density :	No data available.
Lower Explosive Limit:	No data available.
Upper Explosive Limit:	No data available.
Solubility:	1650 g/l (20°C)
Density:	No data available.
Relative density	No data available.
Partition coefficient (n-octanol/water):	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Decomposition temperature:	170°C

#### 9.2 Other information.

None.

### 10. Stability and reactivity

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

#### 10.2 Chemical stability.

Unstable in contact with Acids.

#### 10.3 Possibility of hazardous reactions.

Contact with acids liberates very toxic gas.

#### 10.4 Conditions to avoid.

Avoid contact with bases and incompatible materials.

#### 10.5 Incompatible materials.

Incompatible with acids.

#### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated toxic gases.

### 11. Toxicological information

#### 11.1 Information on toxicological effects.

Acute toxicity.	LD50 oral rat : 500 mg/kg
Inhalation:	Harmful if inhaled.
Dermal:	Harmful in contact with skin.
Ingestion:	Harmful if swallowed.
Corrosion:	Causes serious eye damage.
Irritation:	Based on available data, the classification criteria are not met.
Sensitization:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

### 12. Ecological information

#### 12.1 Toxicity.

Toxicity to daphnia and other aquatic invertebrates.

EC50 Fish (NH4+) 0.3 mg/l

#### 12.2 Persistence and Degradability.

May cause long-term adverse effects in the environment.

#### 12.3 Bioaccumulative potential.

Not established.

#### 12.4 Mobility in soil

Not established.

#### 12.5 Results of PBT and vPvB assessment.

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 12.6 Other adverse effects.

Discharge into the environment must be avoided.

### 13. Disposal considerations

#### 13.1 Waste treatment methods.

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

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### 14. Transport information

#### 14.1 UN number.

Not regulated.

#### 14.2 UN proper shipping name.

Not regulated.

#### 14.3 Transport hazard class(es).

Not regulated.

#### 14.4 Packing group.

Not regulated.

#### 14.5 Environmental hazards.

Not regulated.

#### 14.6 Special precautions for user.

Transportation is not dangerous

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

Not applicable

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### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance.

Ensure all national/local regulations are observed.

The product is not affected by REACH Restrictions - Annex XVII

The product is not affected by REACH Authorisation - Annex XIV

#### 15.2 Chemical safety assessment.

Not Scheduled.

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### 16. Other Information

#### Abbreviations and acronyms :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective concentration, 50%

IC50: Inhibitory Concentration, 50%

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water.

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

#### Sources of key data used.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

#### Review number and date.

v.1.1

#### Date published.

25-Feb-2014

#### Further information.

None.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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