

**1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the product****Product number:** A5110**Name of material:** Ammonium Oxalate Monohydrate**CAS No.:** 6009-70-7**1.2 Recommended use and restriction on use**

General use : for experimental, research and industrial use

Restriction on use : Never drink, Not used except for experimental, research and industrial applications.

**1.3 Manufacturer / Supplier / Distributor information****Importer/distributors identification**

Company : ASIA CHEMIE (THAILAND) CO., LTD.

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**2. Hazards identification****2.1 GHS Classification**

Acute oral toxicity: Category 4

Acute dermal toxicity: Category 4

Eye Irritation: Category 2

**2.2 GHS label elements****Hazard symbols**

QRëC

**Signal words:** Warning**Hazard statements**

H302+H312 Harmful if swallowed or in contact with skin.

H319 Causes serious eye irritation.

**Precautionary statements**

P264 Wash skin thoroughly after handling.

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

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P302+P352+P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3 Other hazards which do not result in classification: (NFPA Classification)**

Not applicable

**3. Composition/information on ingredients**

| Chemical Name                | Synonyms | CAS No.   | Concentration (%) |
|------------------------------|----------|-----------|-------------------|
| Ammonium Oxalate Monohydrate | -        | 6009-70-7 | 100               |

**4. First aid measures****4.1 Eye contact**

- Do not rub your eyes.

- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

**4.2 Skin contact**

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

- Wash contaminated clothing thoroughly before re-using.

**4.3 Inhalation contact**

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

**4.4 Ingestion contact**

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

**4.5 Delayed and immediate effects and also chronic effects from short and long term exposure**

- Not available

**4.6 Notes to physician**

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

**5. Fire-fighting measures****5.1 Suitable (Unsuitable) extinguishing media**

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing.

**5.2 Specific hazards arising from the chemical**

- Not available

**5.3 Special protective actions for firefighters**

- Stay in danger area only with self-contained breathing apparatus.
- Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Avoid inhalation of dusts.
- Avoid substance contact.
- Ensure adequate ventilation.
- Evacuate the danger area, observe emergency procedures, consult an expert.

**6.2 Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

**6.3 Methods and materials for containment and cleaning up**

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notify the central and local government if the emission reach the standard threshold.
- Disposal of waste shall be in compliance with the Wastes Control Act
- Appropriate container for disposal of spilled material collected.
- Small liquid state spills: Appropriate container for disposal of spilled material collected.
- Put the spilled material in an appropriate containers and clean the contaminated area.

**7. Handling and storage****7.1 Precautions for safe handling**

- Wash thoroughly after handling.
- Avoid direct physical contact.
- Avoid contact with incompatible materials.
- Refer to Engineering controls and personal protective equipment.

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

- Do not use damaged containers.
- Do not apply direct heat.
- Store according to current laws and regulations
- Avoid direct sunlight.
- Keep in the original container.

**8. Exposure controls/personal protection****8.1 Exposure limits****ACGIH TLV**

- Not available

**OSHA PEL**

- Not available

**8.2 Engineering controls**

- Business owner is recommended to maintain below recommended exposure limits for the working place with general

exhaust of gas/vapour/mist/fume.

### 8.3 Individual protection measures, such as personal protective equipment

#### Respiratory protection

- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Dust, mist, fume-purifying respiratory protection
- Air-purifying respirator with high-efficiency particulate filtering
- Any respiratory protection with a electromotion fan (for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency
- For Unknown Concentration or Immediately Dangerous to Life or Health: Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

#### Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

#### Hand protection

- Wear appropriate chemical glove.

#### Skin protection

- Wear appropriate chemical clothing.

#### Others

- Not available

### 9. Physical and chemical properties

|                                                 |               |
|-------------------------------------------------|---------------|
| A. Appearance                                   |               |
| - Appearance                                    | Solid (Other) |
| - Color                                         | White         |
| B. Odor                                         | Odorless      |
| C. Odor threshold                               | Not available |
| D. pH                                           | 6.4           |
| E. Melting point/Freezing point                 | 133 °C        |
| F. Initial Boiling Point/Boiling Ranges         | Not available |
| G. Flash point                                  | Not available |
| H. Evaporation rate                             | Not available |
| I. Flammability (solid, gas)                    | Not available |
| J. Upper/Lower Flammability or explosive limits | Not available |
| K. Vapour pressure                              | Not available |
| L. Solubility                                   | 41.8 g/l      |
| M. Vapour density                               | Not available |
| N. Specific gravity (Relative density)          | 1.5           |
| O. Partition coefficient of n-octanol/water     | Not available |
| P. Autoignition temperature                     | Not available |
| Q. Decomposition temperature                    | > 70 °C       |
| R. Viscosity                                    | Not available |
| S. Molecular weight                             | 142.11        |

### 10. Stability and reactivity

#### 10.1 Chemical Stability

- This material is stable under recommended storage and handling conditions.

**10.2 Possibility of hazardous reactions**

- Hazardous Polymerization will not occur.

**10.3 Conditions to avoid**

- Avoid contact with incompatible materials and condition.
- Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces.

**10.4 Incompatible materials**

- Not available

**10.5 Hazardous decomposition products**

- May emit flammable vapour if involved in fire.

**11. Toxicological information****11.1 Information on the likely routes of exposure****Respiratory tracts**

- Not available.

**Oral**

- Not available.

**Eye · Skin**

- Not available.

**11.2 Delayed and immediate effects and also chronic effects from short and long term exposure****Acute toxicity****\* Oral**

- Not available

**\* Dermal**

- Not available

**\* Inhalation**

- Not available

**Skin corrosion/irritation**

- Not available

**Serious eye damage/irritation**

- Not available

**Respiratory sensitization**

- Not available

**Skin sensitization**

- Not available

**Carcinogenicity****\* IARC**

- Not available

**\* OSHA**

- Not available

**\* ACGIH**

- Not available

**\* NTP**

- Not available

**\* EU CLP**

- Not available

**Germ cell mutagenicity**

- Not available

**Reproductive toxicity**

- Not available

**STOT-single exposure**

- Not available

**STOT-repeated exposure**

- Not available

**Aspiration hazard**

- Not available

**12. Ecological information****12.1 Ecotoxicity****Fish**

- Not available

QRëC

**Crustaceans**

- Not available

**Algae**

- Not available

**12.2 Persistence and degradability****Persistence**

- [Ammonium Oxalate Monohydrate]: log Kow -2.30 (Estimate)

**Degradability**

- Not available

**12.3 Bioaccumulative potential****Bioaccumulative potential**

- Not available

**Biodegradation**

- Not available

**12.4 Mobility in soil**

- Not available

**12.5 Other adverse effects**

- Not available

**13. Disposal considerations****13.1 Disposal methods**

- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them
- Oil water separation technology shall be applied as pre-waste treatment if it is applicable
- It shall be treated by incineration

**13.2 Special precautions for disposal**

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
- Dispose of waste in accordance with all applicable laws and regulations.

**14. Transport information****14.1 UN No. (IMDG CODE/IATA DGR)**

- Not applicable

**14.2 Proper shipping name**

- Not applicable

**14.3 Hazard Class**

- Not applicable

**14.4 IMDG CODE/IATA DGR Packing group**

- Not applicable

**14.5 Marine pollutant**

- Not applicable

**14.6 Special precautions for user related to transport or transportation measures**

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available
- Air transport(IATA): Not subject to IATA regulations.

**15. Regulatory information****15.1 National and/or international regulatory information****POPs Management Law**

- Not applicable

**Information of EU Classification****\* Classification**

- Not applicable

**U.S. Federal regulations**

- \* OSHA PROCESS SAFETY (29CFR1910.119)**

- Not applicable

\* **CERCLA Section 103 (40CFR302.4)**

- Not applicable

\* **EPCRA Section 302 (40CFR355.30)**

- Not applicable

\* **EPCRA Section 304 (40CFR355.40)**

- Not applicable

\* **EPCRA Section 313 (40CFR372.65)**

- Not applicable

**Rotterdam Convention listed ingredients**

- Not applicable

**Stockholm Convention listed ingredients**

- Not applicable

**Montreal Protocol listed ingredients**

- Not applicable

#### 16. Other information

**Reason for the revision:** General update.

Date: 10/03/2014

**Revision #4**

Date: 19/10/2022

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