

Revision: 2.0  
(Replaces revision 1.1 of 16 April 2021)Revision date: 19 April 2021  
Date printed: 03 February 2023**Section 1. Identification****1.1 Product Identifier** 1352

Product Name POTASSIUM OXALATE H<sub>2</sub>O pure

CAS Number 6487-48-5

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula  $(\text{COOK})_2 \cdot \text{H}_2\text{O} = 184.23$

**1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier** Vickers Laboratories Ltd

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**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 2362811  
(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.  
Acute toxicity, category 4 (dermal) H312: Harmful in contact with skin.  
Serious eye damage/irritation, category 2 H319: Causes serious eye irritation.

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word Warning

Hazard Pictograms



Hazard Statements Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation.

Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

## Section 3. Composition

### 3.1 Substances

| Component         | CAS No.   | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)              |
|-------------------|-----------|---------|-----------|----------|------------------------------------------------|
| Potassium oxalate | 6487-48-5 |         |           | >99%     | Acute Tox. 4 (O),Acute Tox. 4 (D),Eye Irrit. 2 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.                                       |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION. |
| Inhalation                           | Remove from exposure. Keep warm and at rest. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.                                                          |
| Ingestion                            | Wash out the patients mouth thoroughly with water. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.                                                                  |
| Personal protection for first aiders | Wear protective gloves / eye protection.                                                                                                                                       |

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Extinguishing Media | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media    | Nothing specified.                                                       |

### 5.2 Special hazards arising from the substance or mixture

|         |                                   |
|---------|-----------------------------------|
| Hazards | Presents no specific fire danger. |
|---------|-----------------------------------|

### 5.3 Advice for firefighters

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Protection | Avoid breathing dust-wear respiratory protective equipment. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so. |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2 Environmental precautions

|               |                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------|
| Environmental | Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
|---------------|--------------------------------------------------------------------------------------------------|

### 6.3 Methods and material for containment and cleaning up

Major Spillage                      Shovel/sweep up into container for removal Wash area down with detergent and copious amounts of water.  
Minor Spillage                      Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

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

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep well separated from oxidising agents.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component         | CAS No    | Concentration | Workplace Exposure Limits |                          |
|-------------------|-----------|---------------|---------------------------|--------------------------|
|                   |           |               | Long Term (8hr TWA)       | Short Term 15min period) |
| Potassium oxalate | 6487-48-5 | >99%          | -                         | -                        |

Exposure data source(s)      No occupational exposure data currently available.

### 8.2 Exposure controls

Respiratory Protection      Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection              Wear gloves.

Eye Protection                Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection                Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards                No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance                      White crystalline solid.  
Odour                                Odourless.  
pH                                    7 - 8.5 @ 20°C solution.  
Boiling Point                      Not available  
Melting Point                      356°C  
Flash Point                        Not applicable  
Upper Flammable Limit          Not applicable  
Lower Flammable Limit          Not applicable  
Auto Ignition                      Not applicable  
Explosive Properties              No.  
Oxidising Properties              No.  
Vapour Pressure                    Not applicable  
Relative Density                    2.1300  
Water Solubility                    33%

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |                                                    |
|------|------------------------------------|----------------------------------------------------|
| 10.1 | Reactivity                         | No data available.                                 |
| 10.2 | Chemical Stability                 | Stable under normal conditions                     |
| 10.3 | Possibility of hazardous reactions | No data available.                                 |
| 10.4 | Conditions to Avoid                | Exposure to light.                                 |
| 10.5 | Incompatible Materials             | Strong oxidising agents.                           |
| 10.6 | Hazardous Decomposition Products   | May produce hazardous fumes if involved in a fire. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                 | Causes serious eye irritation.                                                                                                                                                                                                                          |
| Skin                 | Contact with the solid or dust will be mildly irritating to the skin..                                                                                                                                                                                  |
| LD50 Skin            | Not available                                                                                                                                                                                                                                           |
| Ingestion            | Harmful if swallowed. Ingestion of large amounts may cause severe gastro-intestinal irritation, hematemesis, CNS and cardiac depression and ultimately death. Small amounts may cause weakness, muscular twitchings rarely convulsions, coma and death. |
| LD50 Oral            | 660mg/kg(anhydrous basis) Rat                                                                                                                                                                                                                           |
| Inhalation           | Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract.                                                                                                                                                              |
| LD50 Inhalation      | Not available                                                                                                                                                                                                                                           |
| TCLo                 | Not available                                                                                                                                                                                                                                           |
| Carcinogenicity      | Not considered to be a carcinogen.                                                                                                                                                                                                                      |
| Mutagenicity         | Not considered to be a mutagen.                                                                                                                                                                                                                         |
| Reproductive Effects | None identified.                                                                                                                                                                                                                                        |

## Section 12. Ecological

|      |                                  |                                   |
|------|----------------------------------|-----------------------------------|
| 12.1 | Toxicity                         | No specific environmental hazard. |
|      | LC50 Algal                       | Not available                     |
|      | LC50 Crustacea                   | Not available                     |
|      | LC50 Fish                        | Not available                     |
| 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 & vPvB assessment | Assessment not required.          |
| 12.6 | Other adverse effects            | None known at present.            |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Disposal Methods       | Dispose of in a licensed incinerator. Do not dispose of as domestic waste. |
| Contaminated Packaging | Use a licensed waste disposer.                                             |

## Section 14. Transport Information

|                                          |                                  |
|------------------------------------------|----------------------------------|
| <b>14.1 UN Number</b>                    | Non-restricted                   |
| <b>14.2 Proper Shipping Name</b>         | Non-restricted                   |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | None                             |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | None                             |
| ADR Hazard ID                            | Non-restricted                   |
| Tunnel Restriction Code                  | Non-restricted                   |
| <b>14.4 Packing Group</b>                | None                             |
| <b>14.5 Environment hazards</b>          | See section 12.                  |
| <b>14.6 Special precautions for user</b> | No special precautions required. |
| <b>14.7 Transport in bulk</b>            | Not transported in bulk.         |

## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Serious eye damage/irritation, category 2

Signal word Warning

Hazard Pictograms



Hazard Statements H302, H312, H319  
Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation.

Precautionary Statements P264, P270, P280, P301+P330+P331, P303+P361+P353, P305+P351+P338  
Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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