### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Substance name</td>
<td>Potassium Oxalate, Monohydrate, ACS</td>
</tr>
<tr>
<td>CAS No</td>
<td>6487-48-5</td>
</tr>
<tr>
<td>Product code</td>
<td>LC19835</td>
</tr>
<tr>
<td>Formula</td>
<td>C2K2O4.H2O</td>
</tr>
<tr>
<td>Synonyms</td>
<td>dipotassium ethanedioate, monohydrate / ethanedioic acid, monopotassium salt, monohydrate / oxalic acid, monopotassium salt, monohydrate / potassium binoxalate, monohydrate / potassium hydrogen oxalate, monohydrate / potassium salt of sorrel, monohydrate</td>
</tr>
<tr>
<td>BIG no</td>
<td>16461</td>
</tr>
</tbody>
</table>

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

- **Use of the substance/mixture:** Cosmetic product: component
- **Photographic chemical**
- **Chemical substance for research**

#### 1.3. Details of the supplier of the safety data sheet

LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

#### 1.4. Emergency telephone number

Emergency number: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**GHS-US classification**
- Acute Tox. 4 (Oral) H302
- Acute Tox. 4 (Dermal) H312

Full text of H-phrases: see section 16

#### 2.2. Label elements

**GHS-US labelling**

- **Hazard pictograms (GHS-US):**
  - GHS07

- **Signal word (GHS-US):** Warning

- **Hazard statements (GHS-US):**
  - H302+H312 - Harmful if swallowed or in contact with skin

- **Precautionary statements (GHS-US):**
  - P264 - Wash exposed skin thoroughly after handling
  - P270 - Do not eat, drink or smoke when using this product
  - P280 - Wear protective gloves, eye protection
  - P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water
  - P312 - Call a POISON CENTER/doctor/physician if you feel unwell
  - P330 - If swallowed, rinse mouth
  - P362+P364 - Take off contaminated clothing and wash it before reuse
  - P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards

**Other hazards not contributing to the classification:** None under normal conditions.
Potassium Oxalate, Monohydrate, ACS
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Substance type: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Oxalate, Monohydrate, ACS (Main constituent)</td>
<td>(CAS No) 6487-48-5</td>
<td>100</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

3.2. Mixture
Not applicable

4.1. Description of first aid measures
First-aid measures general

First-aid measures after inhalation
Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact
Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Take victim to a doctor if irritation persists.

First-aid measures after eye contact
Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries
No specific information available. SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:

Symptoms/injuries after inhalation
AFTER INHALATION OF DUST: Dry/sore throat. Coughing.

Symptoms/injuries after skin contact
ON CONTINUOUS EXPOSURE/CONTACT: May stain the skin. Discolouration of the (finger)nails.

Symptoms/injuries after ingestion

Chronic symptoms
ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Affection of the renal tissue.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media
EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed.

Unsuitable extinguishing media
No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture
Fire hazard
DIRECT FIRE HAZARD. Non combustible.

Explosion hazard
INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

Reactivity
Upon combustion: CO and CO2 are formed. Violent to explosive reaction with (strong) oxidizers. Violent exothermic reaction with (some) bases.

5.3. Advice for firefighters
Precautionary measures fire
Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions
Cool tanks/drum with water spray/remove them into safety.

Protection during firefighting
Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel


Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. Wash contaminated clothes. In case of reactivity hazard: consider evacuation.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.

Methods for cleaning up : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local. exhaust/ventilation or with respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities


Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. water/moisture.

Storage area : Store in a dry area. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.


7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium Oxalate, Monohydrate, ACS (6487-48-5)

ACGIH : Not applicable

OSHA : Not applicable

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.

Hand protection : Gloves.


Respiratory protection: Dust production: dust mask with filter type P2.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Crystalline solid.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>184.23 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless-white</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7 - 8.5 (5 %)</td>
</tr>
<tr>
<td>pH solution</td>
<td>5 %</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>2.1</td>
</tr>
<tr>
<td>Density</td>
<td>2130 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Water: soluble</td>
<td>soluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC content</td>
<td>0 %</td>
</tr>
<tr>
<td>Other properties</td>
<td>Hygroscopic</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

10.1. Reactivity

Upon combustion: CO and CO2 are formed. Violent to explosive reaction with (strong) oxidizers. Violent exothermic reaction with (some) bases.

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials


10.6. Hazardous decomposition products

No additional information available.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

<table>
<thead>
<tr>
<th>Potassium Oxalate, Monohydrate, ACS (6487-48-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral) 500.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal) 1100.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

- Not classified

Serious eye damage/irritation

- pH: 7 - 8.5 (5 %)

Respiratory or skin sensitisation

- Not classified

Germ cell mutagenicity

- Not classified

Carcinogenicity

- Not classified

Reproductive toxicity

- Not classified

Specific target organ toxicity (single exposure)

- Not classified

Specific target organ toxicity (repeated exposure)

- Not classified

Aspiration hazard

- Not classified

Symptoms/injuries after inhalation

- AFTER INHALATION OF DUST: Dry/sore throat. Coughing.

Symptoms/injuries after skin contact

- ON CONTINUOUS EXPOSURE/CONTACT: May stain the skin. Discolouration of the (finger)nails.

Symptoms/injuries after ingestion


Chronic symptoms

- ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Affection of the renal tissue.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air

- Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water

- Mild water pollutant (surface water). No data available on ecotoxicity.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Potassium Oxalate, Monohydrate, ACS (6487-48-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability Biodegradability in water: no data available.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Potassium Oxalate, Monohydrate, ACS (6487-48-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential No bioaccumulation data available.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer

: 

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

- Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

Additional information

- Hazardous waste according to Directive 2008/98/EC.
Potassium Oxalate, Monohydrate, ACS
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information
In accordance with DOT
Not regulated for transport
Additional information
Other information : No supplementary information available.

ADR
No additional information available
Transport by sea
No additional information available
Air transport
No additional information available

SECTION 15: Regulatory information
15.1. US Federal regulations
Potassium Oxalate, Monohydrate, ACS (6487-48-5)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard

15.2. International regulations
CANADA
Potassium Oxalate, Monohydrate, ACS (6487-48-5)
Not listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification: Uncontrolled product according to WHMIS classification criteria

EU-Regulations
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute Tox. 4 (Dermal) H312
Acute Tox. 4 (Oral) H302
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC
Xn; R21/22
Full text of R-phrases: see section 16

15.2.2. National regulations
Potassium Oxalate, Monohydrate, ACS (6487-48-5)
Not listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations
No additional information available

SECTION 16: Other information
Full text of H-phrases: see section 16:

- Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4
- Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
- H302 Harmful if swallowed
- H312 Harmful in contact with skin
Potassium Oxalate, Monohydrate, ACS
Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>: 0 - Materials that will not burn.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</td>
</tr>
</tbody>
</table>

HMIS III Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>: 2 Moderate Hazard - Temporary or minor injury may occur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>: 0 Minimal Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>: 0 Minimal Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>: E</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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