

Safety Data Sheet

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

Date of issue: 11/21/2014 Version: 1.0

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

1.1. Product identifier

Product form : Substance

Substance name : Potassium Oxalate, Monohydrate, ACS

 CAS No
 : 6487-48-5

 Product code
 : LC19835

 Formula
 : C2K2O4.H2O

Synonyms : dipotassium ethanedioate, monohydrate / ethanedioic acid, monopotassium salt, monohydrate /

oxalic acid, monopotassium salt, monohydrate / potassium binoxalate, monohydrate / potassium binoxalate, monohydrate / potassium salt of sorrel, monohydrate

BIG no : 16461

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

P270 - Do not eat, units of smoke when using this pro

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.

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Unknown acute toxicity (GHS-US) 2.4.

Not applicable

SECTION 3: Composition/information on ingredients

Substance 3.1.

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
Potassium Oxalate, Monohydrate, ACS (Main constituent)	(CAS No) 6487-48-5	100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312

Full text of H-phrases: see section 16

Mixture

Not applicable

Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation First-aid measures after skin contact

- Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- 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

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Doctor: administration of chemical antidote. Doctor: gastric

42 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

Irritation of the oral mucous membranes. Headache. Vomiting. AFTER ABSORPTION OF HIGH QUANTITIES: Blood in vomit. Disturbances of heart rate. Low arterial pressure. Shock. Cramps/uncontrolled muscular contractions. FOLLOWING SYMPTOMS MAY APPEAR LATER: Affection of the renal tissue

Chronic symptoms

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

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

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".

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

oxidizers. Violent exothermic reaction with (some) bases.

Advice for firefighters

Precautionary measures fire Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and

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

Protection during firefighting Heat/fire exposure: compressed air/oxygen apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen

apparatus. Dust cloud production: dust-tight suit.

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

Incompatible products : Strong oxidizers. Strong acids. Strong bases. Water.

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.

Packaging materials : SUITABLE MATERIAL: glass. stainless steel. plastics. MATERIAL TO AVOID: metal.

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.

Eye protection : Face shield. In case of dust production: protective goggles.

Skin and body protection : Protective clothing. In case of dust production: head/neck protection. In case of dust

production: dustproof clothing.

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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

Physical state : Solid

Appearance : Crystalline solid.

Molecular mass : 184.23 g/mol

Colour : Colourless-white

Odour : Odourless

Odour threshold : No data available

pH : 7 - 8.5 (5 %)

pH solution : 5 %

Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : Not applicable
Flash point : Not applicable
Auto-ignition temperature : No data available

Decomposition temperature : > 100 °C

Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : 2.1

Density : 2130 kg/m³
Solubility : Soluble in water.

Water: soluble

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : 0 %

Other properties : Hygroscopic.

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

Strong acids. Strong oxidizers. Strong bases. Water.

10.6. Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

Acute toxicity	. Oral. Harmiui ii swallowed. Dermal. Harmiui in contact with skin.
Potassium Oxalate, Monohydrate, ACS (\f)6487-48-5	
ATE US (oral)	500.000 mg/kg bodyweight
ATE US (dermal)	1100.000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	pH: 7 - 8.5 (5 %)
Serious eye damage/irritation	: Not classified
	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	: Irritation of the oral mucous membranes. Headache. Vomiting. AFTER ABSORPTION OF HIGH QUANTITIES: Blood in vomit. Disturbances of heart rate. Low arterial pressure. Shock. Cramps/uncontrolled muscular contractions. FOLLOWING SYMPTOMS MAY APPEAR LATER: Affection of the renal tissue.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Affection of the renal tissue.

SECTION 12: Ecological information

1	2.1	To	xic	itv

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

Potassium Oxalate, Monohydrate, ACS (6487-48-5)		
	Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Potassium Oxalate, Monohydrate, ACS (6487-48-5)	
Bioaccumulative potential	No bioaccumulation data available.

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.

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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 Sustances 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

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NFPA health hazard : 2 - Intense or continued exposure could cause temporary

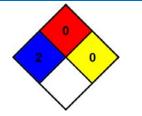
incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

: E

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012)

Personal Protection

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

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