

# POTASSIUM ETHYL XANTHATE EXTRA PURE MSDS

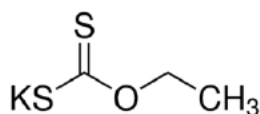
CAS No: 140-89-6 MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

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

#### 1.1. Product identifier

Product form : Substance  
:  
EC no : 205-439-3  
CAS No : 140-89-6  
Product code : 05358  
Chemical structure :



Synonyms : Potassium ethyl xanthogenate / Potassium O-ethyl dithiocarbonate / O-Ethylxanthic acidpotassium salt

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

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

Labogens Fine Chem Industries  
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,  
Ludhiana Pb. (141007)  
+91 9316777775, +91 7707855700  
[sales@labogens.com](mailto:sales@labogens.com) - [www.Labogens.com](http://www.Labogens.com)

#### 1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302  
Category 4  
Serious eye damage/eye irritation, Category 2 H319  
Skin corrosion/irritation, Category 2 H315  
Specific target organ toxicity — Single exposure, Category 3, H335  
Respiratory tract irritation

Full text of classification categories and H statements : see section 16

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22

Xi; R36/37/38

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

:



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (CLP)

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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : POTASSIUM ETHYL XANTHATE Extra Pure  
CAS No : 140-89-6  
EC no : 205-439-3

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- |                                       |                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.                                 |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.    |
| First-aid measures after ingestion    | : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.                                                                                                         |

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

- |                                      |                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------|
| Symptoms/injuries after inhalation   | : May cause respiratory irritation.                                                  |
| Symptoms/injuries after skin contact | : Causes skin irritation.                                                            |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.                                                     |
| Symptoms/injuries after ingestion    | : Swallowing a small quantity of this material will result in serious health hazard. |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- |                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Suitable extinguishing media   | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                |

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

No additional information available

#### 5.3. Advice for firefighters

- |                                |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |
|--------------------------------|------------------------------------------------------------------------|

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- |                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

##### 6.1.2. For emergency responders

- |                      |                                                  |
|----------------------|--------------------------------------------------|
| Protective equipment | : Use personal protective equipment as required. |
| Emergency procedures | : Stop release.                                  |

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- |                         |                                        |
|-------------------------|----------------------------------------|
| Methods for cleaning up | : Clear up rapidly by scoop or vacuum. |
|-------------------------|----------------------------------------|

#### 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 | : Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.           |

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

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

Storage conditions : Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : protective gloves  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Wear respiratory protection

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Colour : Yellow crystalline.  
Odour : carbon disulphide like.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : 210 °C  
Freezing point : No data available  
Boiling point : No data available  
Flash point : 96 °C  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : 1.558 g/cm<sup>3</sup>  
Solubility : Water: Soluble in water

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

|                      |                     |
|----------------------|---------------------|
| Log Pow              | : 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

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 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.       |
| Skin corrosion/irritation                          | : Causes skin irritation.           |
| Serious eye damage/irritation                      | : Causes serious eye irritation.    |
| Respiratory or skin sensitisation                  | : Not classified                    |
| Germ cell mutagenicity                             | : Not classified                    |
| Carcinogenicity                                    | : Not classified                    |
| Reproductive toxicity                              | : Not classified                    |
| Specific target organ toxicity (single exposure)   | : May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : Not classified                    |
| Aspiration hazard                                  | : Not classified                    |

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

Potential adverse human health effects and symptoms : Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 3342 |
| UN-No. (IMDG) | : 3342 |
| UN-No.(IATA)  | : 3342 |
| UN-No.(ADN)   | : 3342 |
| UN-No. (RID)  | : 3342 |

#### 14.2. UN proper shipping name

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Proper Shipping Name (ADR)            | : XANTHATES                         |
| Proper Shipping Name (IMDG)           | : XANTHATES                         |
| Proper Shipping Name (IATA)           | : XANTHATES                         |
| Proper Shipping Name (ADN)            | : XANTHATES                         |
| Proper Shipping Name (RID)            | : XANTHATES                         |
| Transport document description (ADR)  | : UN 3342 XANTHATES, 4.2, II, (D/E) |
| Transport document description (IMDG) | : UN 3342 XANTHATES, 4.2, II        |

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

Transport document description (IATA) : UN 3342 XANTHATES, 4.2, II  
Transport document description (ADN) : UN 3342 XANTHATES, 4.2, II  
Transport document description (RID) : UN 3342 XANTHATES, 4.2, II

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 4.2  
Danger labels (ADR) : 4.2



#### IMDG

Transport hazard class(es) (IMDG) : 4.2  
Danger labels (IMDG) : 4.2



#### IATA

Transport hazard class(es) (IATA) : 4.2  
Hazard labels (IATA) : 4.2



#### ADN

Transport hazard class(es) (ADN) : 4.2  
Danger labels (ADN) : 4.2



#### RID

Transport hazard class(es) (RID) : 4.2  
Danger labels (RID) : 4.2



### 14.4. Packing group

Packing group (ADR) : II  
Packing group (IMDG) : II

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

|                      |      |
|----------------------|------|
| Packing group (IATA) | : II |
| Packing group (ADN)  | : II |
| Packing group (RID)  | : II |

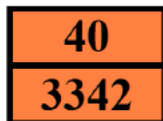
### 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### - Overland transport

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Classification code (ADR)                                 | : S2          |
| Limited quantities (ADR)                                  | : 0           |
| Excepted quantities (ADR)                                 | : E2          |
| Packing instructions (ADR)                                | : P002, IBC06 |
| Mixed packing provisions (ADR)                            | : MP14        |
| Portable tank and bulk container instructions (ADR)       | : T3          |
| Portable tank and bulk container special provisions (ADR) | : TP33        |
| Tank code (ADR)                                           | : SGAV        |
| Vehicle for tank carriage                                 | : AT          |
| Transport category (ADR)                                  | : 2           |
| Special provisions for carriage - Packages (ADR)          | : V1          |
| Hazard identification number (Kemler No.)                 | : 40          |
| Orange plates                                             | :             |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code                      | : 1Y  |

#### - Transport by sea

|                                 |         |
|---------------------------------|---------|
| Limited quantities (IMDG)       | : 0     |
| Excepted quantities (IMDG)      | : E2    |
| Packing instructions (IMDG)     | : P002  |
| Packing provisions (IMDG)       | : PP31  |
| IBC packing instructions (IMDG) | : IBC06 |
| IBC special provisions (IMDG)   | : B2    |
| Tank instructions (IMDG)        | : T3    |
| Tank special provisions (IMDG)  | : TP33  |
| EmS-No. (Fire)                  | : F-A   |
| EmS-No. (Spillage)              | : S-J   |
| Stowage category (IMDG)         | : D     |
| Stowage and handling (IMDG)     | : SW2   |
| MFAG-No                         | : 135   |

#### - Air transport

|                                              |             |
|----------------------------------------------|-------------|
| PCA Excepted quantities (IATA)               | : E2        |
| PCA Limited quantities (IATA)                | : Forbidden |
| PCA limited quantity max net quantity (IATA) | : Forbidden |
| PCA packing instructions (IATA)              | : 467       |



# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

|                                 |        |
|---------------------------------|--------|
| PCA max net quantity (IATA)     | : 15kg |
| CAO packing instructions (IATA) | : 470  |
| CAO max net quantity (IATA)     | : 50kg |
| Special provision (IATA)        | : A3   |
| ERG code (IATA)                 | : 4L   |

### - Inland waterway transport

|                                   |      |
|-----------------------------------|------|
| Classification code (ADN)         | : S2 |
| Limited quantities (ADN)          | : 0  |
| Excepted quantities (ADN)         | : E2 |
| Equipment required (ADN)          | : PP |
| Number of blue cones/lights (ADN) | : 0  |

### - Rail transport

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Classification code (RID)                                 | : S2          |
| Limited quantities (RID)                                  | : 0           |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P002, IBC06 |
| Mixed packing provisions (RID)                            | : MP14        |
| Portable tank and bulk container instructions (RID)       | : T3          |
| Portable tank and bulk container special provisions (RID) | : TP33        |
| Tank codes for RID tanks (RID)                            | : SGAV        |
| Transport category (RID)                                  | : 2           |
| Special provisions for carriage – Packages (RID)          | : W1          |
| Colis express (express parcels) (RID)                     | : CE10        |
| Hazard identification number (RID)                        | : 40          |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

POTASSIUM ETHYL XANTHATE Extra Pure is not on the REACH Candidate List

POTASSIUM ETHYL XANTHATE Extra Pure is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Denmark

# POTASSIUM ETHYL XANTHATE Extra Pure

## Safety Data Sheet

|                                   |                                                                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Class for fire hazard             | : Class III-1                                                                                                                                  |
| Store unit                        | : 50 liter                                                                                                                                     |
| Classification remarks            | : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product                                                                    |

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                                          |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                                              |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                                                      |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H302                | Harmful if swallowed                                                                       |
| H315                | Causes skin irritation                                                                     |
| H319                | Causes serious eye irritation                                                              |
| H335                | May cause respiratory irritation                                                           |
| R22                 | Harmful if swallowed                                                                       |
| R36/37/38           | Irritating to eyes, respiratory system and skin                                            |
| Xi                  | Irritant                                                                                   |
| Xn                  | Harmful                                                                                    |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*