

# POTASSIUM CHLORIDE

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

### Product identifier

|                                                                                          |                                                                                        |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Identification of the substance</b>                                                   | Potassium chloride CELLPURE® ≥ 99 %                                                    |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> |                                                                                        |
| <b>Relevant identified uses:</b>                                                         | Laboratory chemical                                                                    |
| <b>Laboratory and analytical use</b>                                                     |                                                                                        |
| <b>Uses advised against:</b>                                                             | Do not use for private purposes (household).<br>Food, drink and animal feeding stuffs. |

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

**ENTAJ FEED & RAW MATERIALS MANUFACTURING CO.**  
ADDRESS: AMMAN – BUILDING 2477, OFFICE 118210  
LICENSE NO.: 202618787

## 2. Hazard(s) identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS  
This substance does not meet the criteria for classification.

### 2.2 Label elements

Category 4  
Category 2

Labelling not required

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

## 3- Composition/Information on Ingredients

### 3.1 Substances

|                          |                       |
|--------------------------|-----------------------|
| <b>Name of substance</b> | Molecular formula KCl |
| <b>Molar mass</b>        | 74.56 g/mol           |
| <b>CAS No</b>            | 7447-40-7             |



## 4. First aid measures

### 4.1 Description of first aid measures

#### General notes

No special measures are necessary.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

## 5. Fire Fighting Measures

#### Extinguishing media

##### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

##### Unsuitable extinguishing media

water jet

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

Non-combustible.

#### Hazardous combustion products

In case of fire may be liberated: Hydrogen chloride (HCl)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## 6. Accidental release measures

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

For non-emergency personnel

No special measures are necessary.



## 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

## 6.3 Methods and material for containment and cleaning up

### Advice on how to contain a spill

Covering of drains. Take up mechanically.

### Advice on how to clean up a spill

Take up mechanically.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage. Incompatible materials: see section 10.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

#### Human health values

#### Relevant DNELs and other threshold levels

| Endpoint | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| DNEL     | 1,064 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| DNEL     | 5,320 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| DNEL     | 303 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| DNEL     | 910 mg/kg bw/day        | human, dermal                      | worker (industry) | acute - systemic effects   |



## Environmental values

### Relevant PNECs and other threshold levels

| End-point | Threshold level | Organism          | Environmental compartment    | Exposure time                |
|-----------|-----------------|-------------------|------------------------------|------------------------------|
| PNEC      | 0.1 mg/l        | aquatic organisms | freshwater                   | short-term (single instance) |
| PNEC      | 0.1 mg/l        | aquatic organisms | marine water                 | short-term (single instance) |
| PNEC      | 10 mg/l         | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection

- Use safety goggle with side protection.

#### Skin protection

- hand protection

Hand protection is not required.

#### Respiratory protection

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                                 |                                              |
|-----------------------------------------------------------------|----------------------------------------------|
| <b>Physical state</b>                                           | solid                                        |
| <b>Form</b>                                                     | crystalline                                  |
| <b>Colour</b>                                                   | white                                        |
| <b>Odour</b>                                                    | odourless                                    |
| <b>Melting point/freezing point</b>                             | 770 °C (ECHA)                                |
| <b>Boiling point or initial boiling point and boiling range</b> | 1,413 °C at 1,013 hPa                        |
| <b>Flammability</b>                                             | non-combustible                              |
| <b>Lower and upper explosion limit</b>                          | not relevant (solid)                         |
| <b>Flash point</b>                                              | not applicable                               |
| <b>Auto-ignition temperature</b>                                | not determined                               |
| <b>Decomposition temperature</b>                                | not relevant                                 |
| <b>pH (value)</b>                                               | 5.5 – 8 (in aqueous solution: 50 g/l, 25 °C) |
| <b>Kinematic viscosity</b>                                      | not relevant                                 |
| <b>Water solubility</b>                                         | 355 g/l at 25 °C (ECHA)                      |
| <b>Partition coefficient n-octanol/water (log value):</b>       | not relevant (inorganic)                     |
| <b>Vapour pressure</b>                                          | not determined                               |



**Density**  
**Relative vapour density**  
**Bulk density**  
**Particle characteristics**  
**Oxidising properties**

1.98 g/cm<sup>3</sup> at 20 °C  
not relevant (solid)  
~1,000 kg/m<sup>3</sup>  
No data available.  
none

## 9.1 Other information

Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards):  
not relevant

**Other safety characteristics: There is no additional information.**

## 10. Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Classification acc. to GHS

This substance does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic. GHS of the United Nations, annex

4. May be harmful if swallowed.

| Exposure route | Endpoint | Value       | Species | Method | Source |
|----------------|----------|-------------|---------|--------|--------|
| oral           | LD50     | 3,020 mg/kg | rat     |        | ECHA   |



**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity -single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **If swallowed**  
vomiting, nausea, gastrointestinal complaints, excessive thirst
- **If in eyes**  
Data are not available.
- **If inhaled**  
Data are not available.
- **If on skin**  
Data are not available.
- **Other information**  
none

**11.2 Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## 12. Ecological information

**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.



#### Aquatic toxicity (acute)

| Endpoint | Value     | Species               | Source | Exposure time |
|----------|-----------|-----------------------|--------|---------------|
| LC50     | 880 mg/l  | fish                  | ECHA   | 96 h          |
| EC50     | 670 mg/l  | aquatic invertebrates | ECHA   | 48 h          |
| ErC50    | >100 mg/l | algae                 | ECHA   | 72 h          |

#### Aquatic toxicity (chronic)

| Endpoint | Value       | Species        | Source | Exposure time |
|----------|-------------|----------------|--------|---------------|
| EC50     | >1,000 mg/l | microorganisms | ECHA   | 3 h           |

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.



## 13.2 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## 14. Transport information

|                                 |                                                                       |
|---------------------------------|-----------------------------------------------------------------------|
| 14.1 UN number                  | not subject to transport regulations                                  |
| 14.2 UN proper shipping name    | not assigned                                                          |
| 14.3 Transport hazard class(es) | not assigned                                                          |
| 14.4 Packing group              | not assigned                                                          |
| 14.5 Environmental hazards      | non-environmentally hazardous acc. to the dangerous goods regulations |

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

#### Transport information National regulations Additional information (UN RTDG)

Not subject to transport regulations. UN RTDG

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## 15. Other information

This Material Safety Data Sheet (MSDS) has been prepared in accordance with internationally recognized standards and is based on the best information available at the time of issue. It provides a summary of the health and safety hazards of the material and general guidance for its safe handling in the workplace. As the actual conditions of use are beyond our control, each user is responsible for assessing the risks associated with their specific application and implementing appropriate control measures.

**END OF MSDS**

