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## 1. Identification of the substance/mixture

### 1.1. Product identifier

Product name : Potassium Chloride  
Chemical family : Inorganic compound

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

Identified uses : Fertilizer, Oil drilling, Potassium salts, Mineral water, Pharmaceutical preparation, Photography, Fire extinguishing agent, Metallic coating, Secondary batteries (lithium-iron sulfide type), Catalyst Vinyl Chloride, Water correcting agent

## 2. Hazard Identification

### 2.1 Classification of the substances or mixture

This substance is not classified as dangerous according to European Union legislation.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)  
Not a dangerous substances according to GHS  
CAS-No. 7447-40-7

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labeled in accordance with EC directives or respective national laws.

EC-No. 231-211-8

### 2.3 Other hazards

None known

## 3. Composition / information on ingredients

Formula : KCl CIK (Hill)  
CAS No. : 7447-40-7  
EC No. : 231-211-8  
Molar mass: 74.55 g/mol

## 4. First aid measures

### 4.1 Description of first aid measures

After inhalation : fresh air.

After skin contact : wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

After swallowing : make victim drink water. Consult doctor if feeling unwell

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

Irritant effects, nausea, vomiting, cardiovascular disorders



- 4.3 Indication of immediate medical attention and special treatment needed  
No information available

## 5. Fire-fighting measures

- 5.1 Extinguishing media  
*Suitable Extinguishing media*  
use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
*Unsuitable Extinguishing media*  
For this substance/mixture no limitations of extinguishing agents are given
- 5.2 Special hazards arising from the substance or mixture  
No combustible. Ambient fire may liberate hazardous vapours.  
Fire may cause evolution of : hydrogen chloride gas
- 5.3 Advice for firefighters  
*Special protective equipment for fire fighters*  
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 6. Accidental release measures

- 6.1. Personal precaution, protective equipment and emergency procedures.  
Advice for non emergency personnel : Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders: protective equipment see section 8
- 6.2. Environmental precautions  
Do not empty in to drains
- 6.3. Methods and material for containment and cleaning up  
Cover drains. Collect, bind, and pump off spills  
Observe possible material restrictions (see sections 7.2 and 10.5)  
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- 6.4. Reference to the other sections  
Indication about waste treatment see section 13.

## 7. Handling and storage

- 7.1. Precaution for safe handling  
Avoid generating dust by excessive or unnecessary movement
- 7.2. Conditions for safe storage, including any incompatibilities  
Tightly closed. Dry. Avoid contact with aluminum or carbon steel to minimize corrosion  
Storage temperature: no restrictions
- 7.3. Specific end uses.  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



## 8. Exposure controls/personal protection

### *Respiratory protection*

Required when dusts are generated.

### *Hygiene measures*

Change contaminated clothing. Wash hand and face after working with substance.

### *Eye / face protection*

Safety glasses, goggles

### *Environmental exposure controls*

Do not empty into drains.

## 9. Physical and chemical properties

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

Form	solid
Colour	white or redish
Odour	odourless
Odour threshold	no information available
pH(25 °C)	5.5 – 8.0 at 50 g/l
Melting point	772 °C
Boiling point	1,413 °C at 1,013 hPa
Flash point	Not applicable
Evaporation rate	No information available
Flammability (solid,gas)	No information available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available
Relative vapour density	No information available
Relative density	1.98 g/cm <sup>3</sup> at 20 °C
Water solubility	347 g/l at 20 °C
Partition coefficient: n- Octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available

### 9.2. Other data

Sublimation point	1,500 °C
Ignition temperature	not combustible
Bulk density	~ 1,000 kg/m <sup>3</sup>



## 10. Stability and reactivity

### 10.1. Reactivity

See section 10.3

### 10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3. Possibility of hazardous reactions

No information available

### 10.4. Conditions to avoid

No information available

### 10.5. Incompatible materials

No information available

### 10.6. Hazardous decomposition products

In the event of fire, see chapter 5.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### *Acute oral toxicity*

LD<sub>50</sub> rat

Dose : > 2,600 mg/kg  
(RTECS)

#### *Eye irritation*

Possible damage: slight irritation

#### *Genotoxicity in vitro*

Mutagenicity (mammal cell test) : chromosome aberration

Result : positive

#### Ames test

Salmonella typhimurium

Result : negative

(National Toxicology Program)

#### *Specific target organ toxicity – single exposure*

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### *Specific target organ – repeated exposure*

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### *Aspiration hazard*

No aspiration toxicity classification.



## 11.2. Further information

Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

## 12.1. Toxicity

*Toxicity to fish*LC<sub>50</sub>Species : *Gambusia affinis* (Mosquito fish)

Dose : 920 mg/l

Exposure time : 96 h

(IUCLID)

*Toxicity to daphnia magna (Water flea)*EC<sub>10</sub>Species: *Pseudomonas putida*

Dose: 825 mg/l

Exposure time: 48 h

Method: DIN 38412

(IUCLID)

## Toxicity to algae

IC<sub>50</sub>Species: *Desmodesmus subspicatus* (green algae)

Dose: 2,500 mg/l

Exposure time: 72 h

(IUCLID)

## 12.2. Persistence and degradability

## Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances

## 12.3. Bioaccumulative potential

No information available

## 12.4. Mobility in soil

No information available

## 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6. Other adverse effects.

*Additional ecological information*

Do not allow to run into surface waters, waste water, or soil

## 13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.



**14. Transport information**

No classified as dangerous in the meaning of transport regulations.

**15. Regulatory information**

Safety, health and environmental regulation/legislation specific for the substance or mixture

*EU regulations*

Major accident hazard      96/82/EC  
Legislation                      Directive 96/82/EC does not apply

**16. Other information**

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The information accumulated here in is believed to be accurate but is not warranted to be whether originating with the company or not.

Health and safety data sheet should be used only as a guide to the safe handling of the product, and is not intended as a technical specification.

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