SAFETY DATA SHEET
Potassium Chloride

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

Date issued: 12.11.2012

1.1. Product identifier

Product name: Potassium Chloride
Synonyms: Potassium Klorid
CAS no.: 7447-40-7
EC no.: 231-211-8

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

Use of the substance/preparation: Production of fertilizers.

1.3. Details of the supplier of the safety data sheet

Distributor
Company name: Acinor AS
Office address: Titangt. 13, NO-1630 Gamle Fredrikstad
Postal address: Titangaten 13
Postcode: 1630
City: Gamle Fredrikstad
Country: Norway
Tel: 69384082
Fax: 69384084
E-mail: post@acinor.no
Website: http://www.acinor.no
Enterprise no.: NO 984 648 324 MVA
Contact person: Rolf Egil de Flon

1.4. Emergency telephone number

Emergency telephone: Toxic Information: 22 59 13 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification notes: Classification according to 67/548/EEC or 1999/45/EC: Not classified.
Classification notes CLP: Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

All components are classified as non hazardous according to CLP.

2.3. Other hazards

PBT/ vPvB: PBT/vPvB assessment has not been performed.

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Component name</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride</td>
<td>CAS no.: 7447-40-7</td>
<td></td>
<td>~ 100 %</td>
</tr>
<tr>
<td></td>
<td>EC no.: 231-211-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures
4.1. Description of first aid measures

**General**
If in doubt, seek medical advice.

**Inhalation**
Fresh air and rest. Get medical attention if any discomfort continues.

**Skin contact**
Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. By prolonged rinsing, use luke warm water to avoid damage to the eye. Contact physician if discomfort continues.

**Ingestion**
Do not induce vomiting. Drink a few glasses of water or milk. Get medical attention if any discomfort continues.

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

**Information for health personnel**
Treat Symptomatically.

**Acute symptoms and effects**
The product may irritate the respiratory system and can cause itching, burning and coughing.
Skin contact: May cause slight irritation.
Symptoms such as watery eyes and burning may occur.
Ingestion may cause discomfort.

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

Other Information
No specific treatment required, see section 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media**
Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

**Fire and explosion hazards**
The product is not classified as flammable.

**Hazardous combustion products**
Hydrochloric acid.

5.3. Advice for firefighters

**Personal protective equipment**
Use fresh air mask if product is involved in a fire. At evacuation use an approved escape mask, if possible. See also section 8.

**Other Information**
Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions**
Use protective equipment as referred to in section 8.
Avoid dust formation. Avoid inhalation of dust.

6.2. Environmental precautions

Environmental precautions
Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

**Methods for cleaning**
Use mechanical handling equipment. Collect in suitable containers and deliver as waste according to section 13.

6.4. Reference to other sections

Other instructions
See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

**Handling**
Provide adequate ventilation. Use protective equipment as referred to in section 8.
Avoid handling which leads to dust formation. Avoid inhalation of dust.

**Protective Measures**
Advice on general occupational
Wash hands at the end of each work shift and before eating, smoking and
hygiene using the toilet. Do not eat, drink or smoke during work.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed and dry.

7.3. Specific end use(s)

Specific use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Information about threshold limit values

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Occupational exposure controls

Provide adequate ventilation. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory protection

Respiratory protection

Normally not required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Hand protection

Hand protection

Use protective gloves that are suitable for the application.

Suitable gloves type

Nitrile.

Breakthrough time

Penetration time is not known. The recommended material of gloves is recommended after a study of the single components in the product.

Hand protection remark

Change gloves regularly.

Eye / face protection

Eye protection

Wear approved safety goggles.

Skin protection

Skin protection (other than of the hands)

Wear appropriate protective clothing to protect against skin contact.

Other Information

Other Information

The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements. Emergency shower and eye wash facilities should be available at the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid.

Colour

White.

Odour

None.

Comments, Odour limit

Not available.

pH (as supplied)

Value: 5,5-8,0

Comments, pH (as supplied)

Diluted solution: 50g/l.

Melting point/melting range

Value: 773 °C

Boiling point / boiling range

Value: 1413 °C

Comments, Boiling point / boiling range

Pressure: 1013 hPa.

Comments, Flash point

Not entered.

Comments, Evaporation rate

Not entered.

Flammability (solid, gas)

Not entered.

Comments, Explosion limit

Not entered.

Comments, Vapour pressure

Not entered.
Physical hazards
Explosive properties
Not entered.
Oxidising properties
Not entered.

9.2. Other information
Bulk density
Value: ~ 1000 kg/m³

Other physical and chemical properties
Comments
No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
Data lacking.

10.2. Chemical stability
Stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
No hazardous reactions known.

10.4. Conditions to avoid
Conditions to avoid
No recommendation given.

10.5. Incompatible materials
Materials to avoid
No incompatible groups noted.

10.6. Hazardous decomposition products
Hazardous decomposition products
None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological Information:
LD50 oral
Value: 2600 mg/kg
Test animal species: Rat

Potential acute effects
Inhalation
Dust may irritate respiratory system or lungs.
Skin contact
No skin irritation expected. Symptoms such as redness and itching of the skin may occur.
Eye contact
May cause mild irritation. Symptoms such as watery eyes and burning may occur.
Ingestion
Not likely to be ingested. May cause discomfort if swallowed. Ingestion of large amounts may cause abdominal pain, nausea, diarrhea and vomiting.

Delay / Repeating
Sensitisation
None of the substances mentioned in section 3 is considered to have sensitizing effects according to current labelling rules.
Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity
None of the substances mentioned in section 3 is considered as carcinogenic according to current labelling rules.

Mutagenicity
None of the substances mentioned in section 3 are considered to have mutagenic or pro-mutagenic effects.

Teratogenic properties
None of the substances mentioned in section 3 are considered to cause harm to the unborn child.

Reproductive toxicity
None of the substances mentioned in section 3 are considered to have genotoxic effects.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish
Value: 920 mg/l
Method of testing: LC50
Fish, species: Gambusia affinis
Duration: 96 hours

Acute aquatic, algae
Value: 2500 mg/l
Method of testing: IC50
Algae, species: Desmodesmus subspicatus
Duration: 72 hours

Acute aquatic, Daphnia
Value: 825 mg/l
Method of testing: EC50
Daphnia, species: Daphnia magna
Duration: 48 hours

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability

Persistence and degradability
The product consists mainly of inorganic materials which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil

Mobility
The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

PBT assessment results
PBT assessment has not been performed.

vPvB evaluation results
vPvB assessment has not been performed.

12.6. Other adverse effects

Other adverse effects / Remarks
Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal
Collect in marked containers and deliver to approved depot. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned above.

Packaging classified as hazardous waste
No

EWC waste code
EWC: 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport information

14.1. UN number
14.2. UN proper shipping name  
Comment: Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.3. Transport hazard class(es)  
Comment: Not relevant.

14.4. Packing group  
Comment: Not relevant.

14.5. Environmental hazards  
Comment: Not relevant.

14.6. Special precautions for user  
Special precautions for user: Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Other applicable information: Not relevant.

SECTION 15: Regulatory information

EC no. 231-211-8

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

References (laws/regulations): 
- Regulation on classification, labeling and packaging of substances and mixtures (CLP) dated 16.06.2012.
- Administrative norms for pollution of the atmosphere, the latest edition, from Norwegian labour inspection authority
- Dangerous Goods regulations

The Safety Data Sheet is based on information provided by the producer.

15.2. Chemical safety assessment

Chemical safety assessment has been carried out: No

SECTION 16: Other information

Supplier's notes: The information contained in this SDS must be made available to all those who handle the product.

Abbreviations and acronyms used: PBT: Persistent, Bioaccumulative and Toxic  
                               vPvB: very Persistent and very Bioaccumulative

Sources of key data used to compile the safety data sheet: Versjon: 1 fra leverandør datert: 14.04.2011.

Information which has been added, deleted or revised: New Safety Data Sheet.

Checking quality of information: This SDS is quality controlled by National Institute of Technology in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.

Responsible for safety data sheet: Acinor AS