

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

Other Label Information (CLP) 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

Component name	Identification	Classification	Contents
Potassium chloride	CAS no.: 7447-40-7 EC no.: 231-211-8		~ 100 %

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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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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.
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6.2. Environmental precautions

Environmental precautions	Do not allow to enter into sewer, water system or soil.
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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.
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6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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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.
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Protective Measures

Advice on general occupational	Wash hands at the end of each work shift and before eating, smoking and
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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.

Comments, Vapour density	Not entered.
Specific gravity	Value: 1,98 g/cm ³ Test temperature: 20 °C
Comments, Specific gravity	Valid for density.
Solubility description	Solubility value (g/100g H ₂ O, 20°C): 34,7
Solubility in water	Soluble.
Comments, Partition coefficient: n-octanol / water	Not entered.
Comments, Spontaneous combustability	Not entered.
Comments, Decomposition temperature	Not entered.
Comments, Viscosity	Not entered.

Physical hazards

Explosive properties	Not entered.
Oxidising properties	Not entered.

9.2. Other information

Bulk density	Value: ~ 1000 kg/m ³
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Other physical and chemical properties

Comments	No further information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Data lacking.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	No recommendation given.
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10.5. Incompatible materials

Materials to avoid	No incompatible groups noted.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

LD50 oral	Value: 2600 mg/kg Test animal species: Rat
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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.
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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.
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12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
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12.4. Mobility in soil

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

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

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

Comment	Not relevant.
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14.4. Packing group

Comment	Not relevant.
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14.5. Environmental hazards

Comment	Not relevant.
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14.6. Special precautions for user

Special precautions for user	Not relevant.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Other applicable information.

Other applicable information.	Not relevant.
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SECTION 15: Regulatory information

EC no.	231-211-8
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

References (laws/regulations)	<p>Norwegian regulation on classification and labeling of dangerous chemicals. Valid from June 21, 2010.</p> <p>Regulation on classification, labeling and packaging of substances and mixtures (CLP) dated 16.06.2012.</p> <p>Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II Safety Data Sheets.</p> <p>Administrative norms for pollution of the atmosphere, the latest edition, from Norwegian labour inspection authority</p> <p>Norwegian regulations on waste, no. 930/2004, from Ministry of the Environment.</p> <p>Dangerous Goods regulations</p> <p>The Safety Data Sheet is based on information provided by the producer.</p>
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15.2. Chemical safety assessment

Chemical safety assessment has been carried out	No
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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

