

Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)

Printing date 07.03.2011

Version number 1

Revision: 15.12.2010

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

• Product identifier

- Trade name: KCl-250
- Article number: 109 705
- Description: Potassium chloride solution 3 mol/l (AgCl-free)
- Application of the substance / the preparation: Electrolyte solution
- Manufacturer/Supplier:
Wissenschaftlich-Technische Werkstätten GmbH
Dr.-Karl-Slevogt-Straße 1
82362 Weilheim
Deutschland
Tel. +49 881 183-0
- Further information obtainable from: E-mail: info@wtw.de
- Emergency telephone number: + 49 89 19240 (Giftnotruf München)

2 Hazards identification

• Classification of the substance or mixture

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

• Label elements

- Labelling according to EU guidelines:
- Risk phrases: none
- Safety phrases: none

3 Composition/information on ingredients

• Chemical characterization: Mixtures

- Description:
Mixture, consisting of the following components:
Water, potassium chloride
- Dangerous components: Void
- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

• Description of first aid measures

- General information: Remove contaminated clothes.
- After skin contact: Wash off with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Seek medical advice if you feel unwell.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
After swallowing a large amount:
Nausea
Vomiting
- Hazards Risk of cardiac/circulatory disorder, agitation and spasms.

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5 Firefighting measures

- **Extinguishing media**
- Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Hydrogen chloride (HCl)
- **Advice for firefighters**
- Protective equipment: Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** No special measures required.
- **Environmental precautions:** Do not allow larger amounts to enter sewer, surface waters or ground water.
- **Methods and material for containment and cleaning up:** Wash off with water.

7 Handling and storage

- **Handling:**
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire - and explosion protection: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
Store at room temperature (15-25 °C).
Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- **Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:
Avoid contact with the eyes and skin.
Change contaminated clothing.
Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- Protection of hands: Protective gloves recommended for frequent or long-term skin contact.
- Material of gloves Nitrile rubber, NBR
- Eye protection: Safety glasses

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9 Physical and chemical properties

• Information on basic physical and chemical properties	
• General Information	
• Appearance:	
Form:	Fluid
Colour:	Colourless
• Odour:	Odourless
• pH-value:	ca. 7
• Change in condition	
Melting point/Melting range: Undetermined.	
Boiling point/Boiling range: ca. 100°C	
• Flash point:	Not applicable.
• Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
• Density at 20°C:	1,13 g/cm ³
• Solubility in / Miscibility with water:	Fully miscible.

10 Stability and reactivity

- **Reactivity**
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Hazardous decomposition products:** In case of fire, see section 5.

11 Toxicological information

• Information on toxicological effects

- Acute toxicity:

• LD/LC50 values relevant for classification:	
7447-40-7 potassium chloride	
Oral	LD50 2600 mg/kg (Rat) (RTECS)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Acute effects (acute toxicity, irritation and corrosivity):
After swallowing a large amount of potassium chloride, cardiac/circulatory disorder, agitation and spasms may occur.

12 Ecological information

• Toxicity

• Aquatic toxicity:	
7447-40-7 potassium chloride	
EC50	825 mg/l, 48 h (Daphnia magna) (IUCLID)
IC50	2500 mg/l, 72 h (Desmodemus subspicatus) (IUCLID)
LC50	920 mg/l, 96 h (Gambusia affinis) (IUCLID)

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- **Additional ecological information:**

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Waste treatment methods**

- Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

• European waste catalogue	
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03 00	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

- **Uncleaned packaging:**

- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

• Land transport ADR/RID (cross-border)	No hazardous material as defined in the directives.
• Maritime transport IMDG:	No hazardous material as defined in the directives.
• Air transport ICAO-TI and IATA-DGR:	No hazardous material as defined in the directives.

15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent