



Safety data sheet

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

Printing date 27.07.2015

Version number 3

Revision: 27.07.2015

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

• Product identifier

• **Trade name:** KCl-250

• **Article number:** 109 705Y

• **Description:** Potassium chloride solution 3 mol/l (AgCl-free)

• **Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.

• **Application of the substance / the preparation:** Electrolyte solution

• **Manufacturer/Supplier:**

YSI
1725 Brannum Lane
Yellow Springs, OH 45387
USA
phone +1 937-767-7241

• **Further information obtainable from:** E-mail: info@Xyleminc.com

• **Emergency telephone number:** Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

2 Hazards identification

• Classification of the substance or mixture

• **Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.

• Label elements:

• **Labelling according to Regulation (EC) No 1272/2008:** Void

• **Hazard pictograms:** Void

• **Signal word:** Void

• **Hazard statements:** Void

3 Composition/information on ingredients

• Chemical characterization:

• 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

• **After inhalation:** Supply fresh air.

• **After skin contact:** Rinse skin with water/shower.

• **After eye contact:** Rinse opened eye for several minutes under running water.

• After swallowing:

Rinse out mouth and then drink plenty of water.

Get medical advice/attention if you feel unwell.

• Information for doctor:

• **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

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 undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Wash off residuals 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**
- **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 tightly sealed at temperatures between 15 °C and 25 °C.
- **Specific end use(s)** No further relevant information available.

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.
Do not inhale gases / fumes / aerosols.
Take off contaminated clothing and wash it before reuse.
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

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- *Eye protection:* Safety glasses

9 Physical and chemical properties

• Information on basic physical and chemical properties	
• General Information	
• <i>Appearance:</i>	
<i>Form:</i>	Fluid
<i>Colour:</i>	Colourless
• <i>Odour:</i>	Odourless
• <i>pH-value at 20 °C:</i>	6,2
• Change in condition	
<i>Melting point/Melting range:</i> Undetermined.	
<i>Boiling point/Boiling range:</i> 100 °C	
• <i>Flash point:</i>	Not applicable.
• <i>Self-igniting:</i>	Product is not selfigniting.
• <i>Danger of explosion:</i>	Product does not present an explosion hazard.
• <i>Vapour pressure at 20 °C:</i>	23 hPa
• <i>Density at 20 °C:</i>	1,13 g/cm ³
• <i>Solubility in / Miscibility with water:</i>	Fully miscible.
• <i>Viscosity:</i>	
<i>Dynamic:</i>	Not determined.
<i>Kinematic:</i>	Not determined.
• Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

• Information on toxicological effects

• *Acute toxicity*

• *Primary irritant effect:*

• *Skin corrosion/irritation* Based on available data, the classification criteria are not met.

• *Serious eye damage/irritation* Based on available data, the classification criteria are not met.

• *Respiratory or skin sensitisation* Based on available data, the classification criteria are not met.

• *Acute effects (acute toxicity, irritation and corrosivity):*

After swallowing a large amount of potassium chloride, cardiac/circulatory disorder, agitation and spasms may occur.

• *CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)*

• *Germ cell mutagenicity* Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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.
- **Other adverse effects** No further relevant information available.

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

• UN-Number • ADR, ADN, IMDG, IATA	Void
• UN proper shipping name • ADR, ADN, IMDG, IATA	Void
• Transport hazard class(es) • ADR, ADN, IMDG, IATA • Class	Void
• Packing group • ADR, IMDG, IATA	Void

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• Environmental hazards:	Not applicable.
• Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
• UN "Model Regulation":	Void

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- *Directive 2012/18/EU*
- *Named dangerous substances - ANNEX I* None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

• **Abbreviations and acronyms:**

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

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

ICAO: International Civil Aviation Organisation

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

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- *** Data compared to the previous version altered.**