

# MATERIAL SAFETY DATASHEET

According to EG Nr. 1907/2006

Version 12, Revision date 11-Aug-19

Print date 4-Aug-21

GENERIC MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

### 1.1 Product identifiers

Product Name : KCl solution  
Product number : 250.2004, 250.2005  
Supplier : Antec Scientific  
REACH number : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified use : For use with salt bridge reference electrodes.

### 1.3 Details of the supplier of the safety data sheet

Company : Antec Scientific  
Industrieweg 12  
2382NV Zoeterwoude  
The Netherlands  
Telephone : +31 71-5813333  
Email : info@AntecScientific.com

### 1.4 Emergency telephone number

Emergency # : 112 (Alarm number)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

### 2.2 Label elements

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

### 2.3 Other hazards

This substance/mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Formula : KCl  
Molecular weight : 74,55 g/mol  
Composition : KCl (28% w/v); 28g in 100 mL water.  
No components need to be disclosed according to the applicable regulations.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Immediately flush eyes with copious amounts of water for at least 15 minutes.

#### If swallowed

Wash out mouth with water provided person is conscious.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture**  
Hydrogen chloride gas, Potassium oxides
- 5.3 Advice for firefighters**  
Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information**  
No data available

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## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid breathing vapours, mist or gas.  
For personal protection see section 8.
- 6.2 Environmental precautions**  
No special environmental precautions required.
- 6.3 Methods and materials for containment and cleaning up**  
Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections**  
For disposal see section 13.

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## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in a cool and dry place. Keep container tightly closed in a dry and well-ventilated place.  
Light sensitive.  
Storage class (TRGS 510): Non Combustible Liquids.
- 7.3 Specific end use(s)**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Components with workplace control parameters**  
The product does not contain substances for which MAC-limits are defined.

### 8.2 Exposure controls

**Appropriate engineering controls**  
Use general industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection not required.  
For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

No special environmental precautions required.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |    |                                          |                       |
|----|------------------------------------------|-----------------------|
| a) | Appearance Form:                         | liquid                |
|    | Colour:                                  | colourless            |
| b) | Odour:                                   | No data available     |
| c) | Odour threshold:                         | No data available     |
| d) | pH:                                      | 5,0 - 7,0 at 20 °C    |
| e) | Melting point/freezing point:            | No data available     |
| f) | Initial boiling point and boiling range: | > 100 °C at 1.013 hPa |

|    |                                               |                                  |
|----|-----------------------------------------------|----------------------------------|
| g) | Flash point:                                  | No data available                |
| h) | Evaporation rate:                             | No data available                |
| i) | Flammability (solid, gas):                    | No data available                |
| j) | Upper/lower flammability or explosive limits: | No data available                |
| k) | Vapour pressure:                              | No data available                |
| l) | Vapour density:                               | No data available                |
| m) | Relative density:                             | 1,120 g/cm <sup>3</sup> at 20 °C |
| n) | Water solubility:                             | No data available                |
| o) | Partition coefficient octanol/water:          | No data available                |
| p) | Auto-ignition temperature:                    | No data available                |
| q) | Decomposition temperature:                    | No data available                |
| r) | Viscosity:                                    | No data available                |
| s) | Explosive properties:                         | No data available                |
| t) | Oxidizing properties:                         | No data available                |

## 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - No data available  
In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Additional Information

RTECS: TS8050000, Potassium chloride  
Weakness, May cause irritation of the gastrointestinal tract, disturbance of the circulatory system.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information****14.1 UN number**

ADR/RID: -                      IMDG: -                                      IATA: -

**14.2 UN proper shipping name**

ADR/RID:                      Not dangerous goods  
IMDG:                              Not dangerous goods  
IATA:                              Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -                      IMDG: -                                      IATA: -

**14.4 Packaging group**

ADR/RID: -                      IMDG: -                                      IATA: -

**14.5 Environmental hazards**

ADR/RID: no                      IMDG Marine pollutant: no                      IATA: no

**14.6 Special precautions for user**

No data available

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**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the mixture**

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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**SECTION 16: Other information**

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**16.1 Changes with previous revision**

The layout is changed and confirmed according to EG Nr. 1907/2006.