



# SENTEK

SENTEK LIMITED  
Unit 6-7 Crittall Court  
Crittall Drive  
Springwood Industrial Estate  
Braintree, Essex CM7 2SE  
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website: [www.sentek.co.uk](http://www.sentek.co.uk)

## Safety Data Sheet

### Section 1: Identification

#### 1.1 Product Identifiers

Product Name Double Junction Ag/AgCl Reference Electrode –  
4M KCl(outer), 4M KCl saturated with  
AgCl(inner)

#### 1.2 Application

Intended Use Reference electrode

#### 1.3 Details of Supplier

Manufacturer/Supplier Sentek Ltd  
Unit 6-7 Crittall Court  
Crittall Drive  
Springwood Industrial Estate  
Braintree  
Essex  
CM7 2SE  
England

Telephone +44 (0) 1376 340456  
Fax +44 (0) 1376 340453  
E-mail [sentekuk@btconnect.com](mailto:sentekuk@btconnect.com)

#### 1.4 Emergency Telephone

Emergency Contact +44 (0) 1376 340456

### Section 2: Hazards Identification

#### 2.1 Classification of the Substance or Mixture

Chronic aquatic toxicity (Category 3), H412 according to Regulation (EC) No  
1272/2008

Registered Office: Unit 6-7 Crittall Court, Crittall Drive, Springwood Industrial Estate,  
Braintree, Essex, CM7 2SE

Registered in England No. 2753857



BS EN ISO 9001:2015  
Certificate No. FM 36099



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## 2.2 Label Elements

Pictogram



Signal Word

Warning

Hazard Statements

Although only present in very low concentration, silver chloride is harmful to aquatic life with long lasting effects.

Precautionary statements

Avoid release into the environment

## 2.3 Other Hazards

None

## Section 3: Composition/Information on Ingredients

### 3.1 Substances

Name	Potassium Chloride
Formula	KCl
CAS No	7447-40-7
Concentration	>29.8%

Name	Water
Formula	H <sub>2</sub> O
CAS No	7732-18-5
Concentration	<70%

Name	Silver Chloride
Formula	AgCl
CAS No	7783-90-6
Concentration	<0.5%



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## Section 4: First Aid Measures

### 4.1 Description of First Aid Measures

In Case of Eye Contact	Flush eyes thoroughly with water
In Case of Swallowing	Rinse mouth with water. Consult a physician

## Section 5: Firefighting Measures

### 5.1 Extinguishing Media

Suitable Extinguishing Media  
Water Spray, Foam, Dry Powder, Carbon Dioxide

### 5.2 Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products  
At high temperatures potential release of hydrogen chloride gas

### 5.3 Advice for firefighters

Wear breathing apparatus if necessary

## Section 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use suitable laboratory precautions

### 6.2 Environmental Precautions

Do not allow to enter drains

### 6.3 Methods and Materials for Containment and Cleaning up

Use suitable absorbent material and dispose of safely



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## Section 7: Handling and Storage

### 7.1 Precautions for Safe Handling

No special measures required other than normal laboratory precautions

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

Keep sealed in electrode as supplied

### 7.3 Specific End Uses

No other uses other than those specified in Section 1.2

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

#### Components with Workplace Control Parameters

None

### 8.2 Exposure Controls

#### General Protective and Hygienic Measures

Usual precautionary laboratory methods for handling chemicals should be followed

#### Personal Protective Equipment

##### Eye Protection

Use suitable laboratory standard eye protection

##### Skin Protection

Handle with gloves

##### Body Protection

Not required

##### Respiratory Protection

Not required



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**Environmental Exposure Controls**  
Do not allow to enter drains

## Section 9: Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

<b>Form:</b>	Reference electrode is a solid container
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not determined
<b>pH:</b>	Not determined
<b>Melting Point/ Freezing Point:</b>	Not determined
<b>Boiling Point/ Boiling Range:</b>	Not determined
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Not applicable
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not determined
<b>Explosion limits:</b>	Not applicable
<b>Vapour Pressure:</b>	Not determined
<b>Density:</b>	Not determined
<b>Vapour Density:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined
<b>Water Solubility:</b>	Not determined
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Viscosity:</b>	Not determined
<b>Explosive Properties:</b>	Not determined
<b>Oxidizing Properties:</b>	Not determined

### 9.2 Other Information

No further relevant information available



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## Section 10: Stability and Reactivity

### 10.1 Reactivity

No relevant information available

### 10.2 Chemical Stability

Stable under normal conditions

### 10.3 Possibility of Hazardous Reactions

None known

### 10.4 Conditions to Avoid

No relevant information available

### 10.5 Incompatible Materials

Strong oxidizing reagents

### 10.6 Hazardous Decomposition products

In the event of fire: see Section 5

## Section 11: Toxicological information

### 11.1 Information on Toxicological Effects

<b>Acute Toxicity:</b>	No data available
<b>Skin Irritation:</b>	No data available
<b>Eye damage/Irritation</b>	Eye irritation
<b>Sensitization</b>	No data available
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Specific Target Organ</b>	
<b>Toxicity</b>	No data available
<b>Aspiration Hazard:</b>	No data available



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## Section 12: Ecological information

### 12.1 Toxicity

Silver chloride - Fish 1 (LC50: 0.0005mg/L)

### 12.2 Persistence and Degradability

No data available

### 12.3 Bio-accumulative Potential

No data available

### 12.4 Mobility in Soil

Highly mobile in soil

### 12.5 Result of PBT and vPvB

No data available

### 12.6 Other Adverse Effects

Harmful to aquatic life with long lasting effects

## Section 13: Disposal Considerations

### 13.1 Waste Treatment Methods

Can be disposed of via licensed disposal company

## Section 14: Transport Information

### 14.1 UN Number

Non-regulated material

### 14.2 UN Proper Shipping Name

Non-regulated material

### 14.3 Transport Hazard Class

Non-regulated material



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**14.4 Packaging Group**  
Non-regulated material

**14.5 Environmental Hazards**  
No

**14.6 Special Precautions for User**  
Not applicable

## Section 15: Regulatory Information

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**  
None of the ingredients is listed

**15.2 Chemical Safety Assessment**  
A chemical safety assessment has not been carried out

## Section 16: Other Information

The information above is based on our present knowledge and is believed to be correct but shall be used only as a guide. It does not constitute a guarantee for any specific product features.

**Date of Preparation/Last Revision**                      24/09/2021