



# SENTEK

SENTEK LIMITED  
Unit 6-7 Crittall Court  
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Springwood Industrial Estate  
Braintree, Essex CM7 2SE  
England

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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 Nitrate Ionic Strength Adjustment Buffer (ISAB)

#### 1.2 Application

Intended Use Buffering of all samples and standards to the same ionic strength

#### 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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.



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## 2.2 Label Elements

Not a hazardous substance or mixture.

## 2.3 Other Hazards

None

## Section 3: Composition/Information on Ingredients

### 3.1 Substances

Name	Ammonium Sulphate
Formula	$(\text{NH}_4)_2\text{SO}_4$
CAS No	7783-20-2
Concentration	1M

Name	Water
Formula	$\text{H}_2\text{O}$
CAS No	7732-18-5
Concentration	>86%

## Section 4: First Aid Measures

### 4.1 Description of First Aid Measures

In Case of Skin Contact	Rinse with water.
In Case of Eye Contact	Flush eyes thoroughly with water. If irritation occurs consult a physician.
In Case of Swallowing	Rinse mouth with water. Consult a physician if necessary.

## Section 5: Firefighting Measures

### 5.1 Extinguishing Media

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



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## 5.2 Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products

At high temperatures potential release of oxides of nitrogen and oxides of sulphur

## 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

No special environmental precautions required

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

Use suitable absorbent material and dispose of safely.

## 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 container tightly closed in a dry and well-ventilated place.

### 7.3 Specific End Uses

No other uses other than those specified in Section 1.2



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## 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

#### Environmental Exposure Controls

No special measures required other than normal laboratory precautions

## Section 9: Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

<b>Form:</b>	Liquid
<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

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Registered in England No. 2753857



BS EN ISO 9001:2015  
Certificate No. FM 36099



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<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>	Soluble
<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

## 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



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**10.5 Incompatible Materials**  
Strong oxidizing reagents

**10.6 Hazardous Decomposition products**  
Oxides of nitrogen and oxides of sulphur

## Section 11: Toxicological information

### 11.1 Information on Toxicological Effects

<b>Acute Toxicity:</b>	
<b>Oral</b>	Ammonium Sulphate: (LD50 Rat: 2,840 mg/kg)
<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 Toxicity</b>	No data available
<b>Aspiration Hazard:</b>	No data available

## Section 12: Ecological information

- 12.1 Toxicity**  
Ammonium Sulphate  
Danio rerio (zebra fish): (LC50: 420 mg/L/96h)  
Daphnia magna (water flea): (EC50: 129 mg/L/48h)
- 12.2 Persistence and Degradability**  
No data available
- 12.3 Bio-accumulative Potential**  
No data available



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**12.4 Mobility in Soil**  
No data available

**12.5 Result of PBT and vPvB**  
No data available

**12.6 Other Adverse Effects**  
No data available

## 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

**14.4 Packaging Group**  
Non-regulated material

**14.5 Environmental Hazards**  
No

**14.6 Special Precautions for User**  
Not applicable



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## 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**                      23/03/2020

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