



SENTEK

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

Tel: +44 (0) 1376 340 456
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e-mail: sentekuk@btconnect.com
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Safety Data Sheet

Section 1: Identification

1.1 Product Identifiers

Product Name Chloride 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

1.4 Emergency Telephone

Emergency Contact +44 (0) 1376 340456

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 3), H272



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2.2 Label Elements

Pictogram



Signal Word

Warning

Hazard statement(s)

H272

May intensify fire; oxidizer.

2.3 Other Hazards

None

Section 3: Composition/Information on Ingredients

3.1 Substances

Name	Potassium Nitrate
Formula	KNO_3
CAS No	7757-79-1
Concentration	1M

Name	Water
Formula	H_2O
CAS No	7732-18-5
Concentration	>89%

Section 4: First Aid Measures

4.1 Description of First Aid Measures

In Case of Skin Contact	Rinse with water. If irritation occurs consult a physician
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



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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

Potassium nitrate is an oxidiser and may increase the intensity of a fire

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. Do not use sawdust

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

Do not allow to enter drains

Section 9: Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Form:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not determined
pH:	Not determined
Melting Point/ Freezing Point:	Not determined

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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Boiling Point/ Boiling Range:	Not determined
Flash Point:	Not applicable
Flammability:	Not applicable
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not determined
Explosion limits:	Not applicable
Vapour Pressure:	Not determined
Density:	Not determined
Vapour Density:	Not determined
Evaporation Rate:	Not determined
Water Solubility:	Soluble
Partition Coefficient: n-octanol/water	Not determined
Viscosity:	Not determined
Explosive Properties:	Not determined
Oxidizing Properties:	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 acids, strong oxidizing reagents, strong reducing agents, organic compounds

10.6 Hazardous Decomposition products

Potassium Oxides and Nitrogen Oxides

Section 11: Toxicological information

11.1 Information on Toxicological Effects

Acute Toxicity:

Oral

Potassium Nitrate: LD50 (rat)
3750 mg/kg

Skin Irritation:

No data available

Eye damage/Irritation

Eye irritation

Sensitization

No data available

Germ Cell Mutagenicity:

No data available

Carcinogenicity:

No data available

Reproductive Toxicity:

No data available

Specific Target Organ

Toxicity

No data available

Aspiration Hazard:

No data available

Section 12: Ecological information

12.1 Toxicity

Potassium Nitrate

Water fleas (EC50: 226mg/L/48h)

12.2 Persistence and Degradability

No data available

12.3 Bio-accumulative Potential

No data available

12.4 Mobility in Soil

No data available

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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 25/02/2020