

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1 Product Identifier

Product form	Liquid
Chemical Name	Potassium Chloride Solution.
Index No.	Mixture
EC No.	Mixture
CAS No.	Mixture

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

1.2.1	Relevant identified uses	Laboratory Chemical
1.2.2	Uses advised against	No additional information available.

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

De Bruyn Spectroscopic Solutions  
70/145 Chattan Road  
Glenferness, Midrand, 2191  
Gauteng,  
South Africa

### 1.4 Emergency telephone number:

RSA: 086 100 0366  
Namibia: 080 010 0366  
Other: Local Emergency Services.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification Regulation (EC) No 1272/2008 (CLP):**  
Not classified according to Regulation (EC) No 1272/2008.

### 2.2 Label Elements

**Labelling (Regulation (EC) No 1272/2008)**  
Not classified according to Regulation (EC) No 1272/2008.

### 2.3 Other hazards

**Other hazards not contributing to the classification:**

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

Not applicable.

### 3.2 Mixture

No components need to be disclosed according to the applicable regulations.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**First aid measures general**

**First aid measures after inhalation**

Remove person to fresh air.

**First aid measures after skin contact**

Rinse skin with water as a precaution.

**First aid measures after eye contact**

Flush eyes with water as a precaution.

**First aid measures after ingestion**

Rinse mouth with water.

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

Symptoms/effects after skin contact

No symptoms expected.

Symptoms/effects after eye contact

No symptoms expected.

Symptoms/effects after ingestion/inhalation

No symptoms expected.

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

No special treatment needed.

**SECTION 5: FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media  
Unsuitable

Water spray. Dry powder. Foam. Carbon dioxide.  
Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

Fire hazard

Product not combustible.

Hazardous decomposition products in case of fire

None.

**5.3 Advice for firefighters**

Protection during firefighting

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

**5.4 Further Information**

No further information.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment, and emergency procedures**

**6.1.1 For non-emergency personnel**

Emergency procedures

Use personal protective equipment as required.

**6.1.2 For emergency responders**

Protective equipment

Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

**6.2 Environmental precautions**

No specific environmental precautions.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up

Take up liquid spill absorbent material.

Other Information

Keep in suitable containers for disposal.

**6.4 Reference to other sections**

For further information refer to section 5, 8, 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Precautions for safe handling

Wear recommended personal protective equipment. See section 8.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage conditions

Keep container tightly closed in a dry and well ventilated area. Keep in original container. Recommended storage temperature: 20 ± 5°C.

Incompatible materials

Strong oxidizing agents.

Packaging

Original container.

**7.3 Specific end users**

No additional information.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Exposure Limits**

No limits specified.

**8.2 Exposure controls**

Appropriate engineering controls

None required.

Conductivity@1408µS/cm

**Personal protective equipment**  
**Hand protection**  
**Eye protection**  
**Skin and body protection**  
**Respiratory protection**

As a precaution only, as required for surrounding activities.  
Protective gloves  
Safety goggles  
Not required,  
Not required.



**Environmental exposure controls**

No special environmental precautions required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Product form	Liquid
Appearance	Colorless
Odour	None
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate = 1)	No data available
Melting point/Freezing Point	0°C
Initial Boiling point	100°C
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative vapour density @ 20°C	No data available
Density	1.0 g/cm <sup>3</sup> @ 20°C
Solubility (water)	Miscible
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not classified as explosive
Explosive limits	Not applicable
Oxidising properties	None

### 9.2 Additional information

No additional data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

The product is non-reactive.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

Conductivity@1408µS/cm

**10.4**      **Conditions to avoid**  
Keep away from excessive heat.

**10.5**      **Incompatible materials**  
Strong oxidizing agents..

**10.6**      **Hazardous decomposition products**  
No hazardous decomposition if stored and handled correctly.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1**      **Information on toxicological effects**      Test data not available for the mixture.  
Acute toxicity (oral)      Not classified  
Acute toxicity (Dermal)      Not classified  
Acute toxicity (Respiratory)      Not classified

Skin corrosion/irritation:	Not classified
Serious eye damage/irritation	Not classified,
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-SE	Not classified
STOT RE	Not classified
Aspiration hazard	Not classified

**11.2**      **Additional Information**  
**Endocrine disrupting properties**  
This substance/mixture does not contain components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1**      **Toxicity**  
Ecology - general      Not classified.  
Acute aquatic toxicity      Not classified.  
Chronic aquatic toxicity      Not classified.

**12.2**      **Persistence and degradability**      Not applicable for inorganic compounds.

**12.3**      **Bioaccumulative potential**      Not applicable for inorganic compounds.

**12.4**      **Mobility**      No data available.

**12.5**      **Results of PBT and vPvB assessment**  
This substance/mixture contains no components considered to be either persistent, bio accumulative or toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

**12.6**      **Endocrine disrupting properties**  
Assessment This substance/mixture does not contain components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**12.7**      **Other adverse effects**  
No additional information.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **Waste treatment methods: Product and packaging**

The generation of waste should be avoided or minimised wherever possible. This material and packaging must be disposed of in a safe way in consultation with licensed waste disposal company in accordance with local legal requirements.

**SECTION 14: TRANSPORT INFORMATION**

In accordance with ADR / IMDG / IATA

	ADR	IMDG	IATA	Class Diamond
UN Number	NOT REGULATED	NOT REGULATED	NOT REGULATED	
Proper Shipping Name	-	-	-	
Hazard Class	-	-	-	
Subsidiary hazard class	-	-	-	
Packing Group	-	-	-	
Marine pollutant	-	-	-	

Limited/Excepted quantity: None

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture**

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

**Authorisations and/or restrictions on use:**

This product does not contain any substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006. Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: None

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : No restrictions.

**National Regulations:**Occupational Health and Safety Act 85 of 1993.  
Hazardous Chemical Agents Regulations.  
SANS 10228, 10229, 10232-4.**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Full text of hazard classes and statements:

None	
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Revision history	Changes	Date
Revision 2.0	Document updated to GHS Standard	18-10-2024