



Manufacturers of Instruments for
pH, Redox, Specific Ions,
Conductivity, Salinity,
Dissolved Oxygen,
Humidity, Temperature,
for Research and Industry



Manufacturer : Australian Chemical Reagents
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MATERIAL SAFETY DATA SHEET

Not Classified as Hazardous According to Criteria of Worksafe Australia

IDENTIFICATION

Solutions made from Potassium Chloride dissolved in water.

Part No	Product Code	Description & Volume	KCl Concentration
121311	GFDJIN	Filling Solution, Internal Double Junction Ref, 100mL	1 M
121326	GFKCL	Filling Solution for pH Probes, 100mL	3.5 M
121327	GFKCL1	Filling Solution for Reference Probes, 100mL	1 M
121328	GFKCLL	Filling Solution for pH Probes, 1 Litre	3.5 M
121554	GSK	Potassium Ion Standard, 1000 ppM, 200mL	1.906 g/L
121556	GSKL	Potassium Ion Standard, 1000 ppM, 1 Litre	1.906 g/L
121804	GFI4	ISE Internal Filling Solution 4, 45mL	0.001 M
121808	GFI8	ISE Internal Filling Solution 8, 45mL	0.1 M
121832	GISA4	Ionic Strength Adjustor 4, 200mL	Saturated Solution
121834	GISA4L	Ionic Strength Adjustor 4, 1 Litre	Saturated Solution
122305	GSC2.7L	Conductivity Standard, 2.76mS/cm, 1 Litre	0.02 M
122306	GSC2.7	Conductivity Standard, 2.76mS/cm, 200mL	0.02 M
122310	GSCUS	Custom Conductivity Standard, 1 Litre	0.005 M to 1 M, as required
122311	GSC8	Conductivity Standard, 8.0 mS/cm, 200mL	4.532 g/L
122314	GSC150	Conductivity Standard, 150 uS/cm, 1 Litre	0.069 g/L
122317	GSCUS5	Custom Conductivity Standard, 5 Litres	0.005 M to 1 M, as required
122318	GSCUS10	Custom Conductivity Standard, 10 Litres	0.005 M to 1 M, as required
122319	GSCUS25	Custom Conductivity Standard, 25 Litres	0.005 M to 1 M, as required
122320	GSC1502	Conductivity Standard, 150 uS/cm, 200 mL	0.069 g/L
122323	GSCUS.2	Custom Conductivity Standard, 200 mL	0.005 M to 1 M, as required
123303	GFO	Filling Solution, ED500, ED1 & YSI DO sensors, 45mL	1 M

UN Number : None Allocated
Other Names : Nil
Manufacturers Code : Various

Dangerous Goods Class : None Allocated
Subsidiary Risk : None Allocated
Hazchem Code : None Allocated
Poisons Schedule : Not Scheduled



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Uses : Conductivity Standards are Analytical Reagents for calibrating conductivity meters.
Ion Standards are Analytical Reagents for calibrating specific ion meters.
Filling Solutions are used to fill specific ion and reference electrodes.

Physical Description / Properties :

Appearance : Clear liquid
Boiling Point (°C) : 100 (approx)
Vapour Pressure (mm of Hg @ 25°C) : 25 (approx)
Specific Gravity : 1.2 (for 2.76 mS/cm)
Flash Point (°C) : Not flammable
Flammability Limits (%) : Not flammable
Solubility in Water (g/L) : Completely miscible

Other Properties : pH Neutral

Ingredients :

Chemical Entity	CAS No	Proportion
Potassium Chloride	[7447-40-7]	See product descriptions.
Water	[7732-18-5]	to 100%

HEALTH HAZARD INFORMATION

Health Effects :

Swallowed : May cause irritation of the gastric system. May lead to nausea, vomiting, cramps, diarrhoea.
Ingestion of large quantities may cause heart condition due to high potassium level.

Eye : May be irritating to eye tissue.

Skin : Not considered a hazard with normal laboratory use.

Inhaled : Not considered a hazard with normal laboratory use.

Chronic Effects : No data available

First Aid :

Swallowed : If conscious wash out mouth with water. Seek medical advice. Show this MSDS to medical practitioner.

Eye : Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this MSDS to medical practitioner.

Skin : Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this MSDS to medical practitioner.

Laundry clothing before reuse.

Inhaled : Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this MSDS to a doctor.

Advice to Doctor :

Treat symptomatically



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PRECAUTIONS FOR USE

- Exposure Limits** : None known
- Engineering Controls** : Not usually required with normal use.
- Personal Protection** : If contact likely, wear protective clothing including safety glasses and rubber or PVC gloves.
- Flammability** : Not flammable.

SAFE HANDLING INFORMATION

- Storage & Transport** : Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Observe good hygiene and housekeeping practices.
- No special transport requirements apply.
- Spills & Disposal** : Absorb spills with sand or vermiculite. Transfer carefully to disposal container. Dispose of in accordance with local regulations.
- Fire/Explosion Hazard** : Fire fighters should wear self contained breathing apparatus and impervious clothing if exposure to fumes is likely. Use water spray, foam or dry chemical to control fire situation if compatible with other chemical products in the vicinity.

Other :

References :

Lenga, R.E. (Ed.) *Safety The Sigma Aldrich Library of Chemical Safety Data* Sigma Aldrich Corporation 1985

National Institute for Occupational Safety & Health *NIOSH Pocket Guide to Chemical Hazards* 1990.

Merck & Co Inc. *The Merck Index 11th Ed.* Merck & Co 1989.

International Labour Office *Encyclopaedia of Occupational Health & Safety* Vol 1 & 2 International Labour Office 1983

National Occupational Health & Safety Commission *Exposure Standards for Atmospheric Contaminants in the Occupational Environment* AGPS 1995

National Occupational Health & Safety Commission *List of Designated Hazardous Substances* [NOHSC:10005(1994)] AGPS 1994

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