



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

TISAB Buffer Solution

Part No	Product Code	Description & Volume
121820	GISA1	Ionic Strength Adjustor 1 (TISAB), 200mL
121822	GISA1L	Ionic Strength Adjustor 1 (TISAB), 1 Litre
121322	GSTISAB	TISAB Buffer / Stabiliser for Fluoride, 1 Litre
121323	GSFISAB	FISAB Buffer / Stabiliser for NSW Fluoride, 1 Litre

UN Number : None Allocated
Other Names : Nil
Manufacturers Code : GCTISAB
Dangerous Goods Class : None Allocated
Subsidiary Risk : None Allocated
Hazchem Code : None Allocated
Poisons Schedule : Not Scheduled

Uses : Buffer for use with Fluoride Ion Selective Electrode

Physical Description / Properties :

Appearance : Clear liquid
Boiling Point (°C) : 100 (approx)
Vapour Pressure (mm of Hg @ 25°C) : 25 (approx)
Specific Gravity : 1
Flash Point (°C) : Not flammable
Flammability Limits (%) : Not flammable
Solubility in Water (g/L) : Completely miscible

Other Properties : 5.5 pH (approx)

Ingredients :

Chemical Entity	CAS No	Proportion
Sodium Chloride	[7647-14-5]	<10%
Sodium Acetate	[127-09-3]	<10%
Sodium Citrate	[6132-04-3]	<5%
Water	[7732-18-5]	to 100%

TISAB

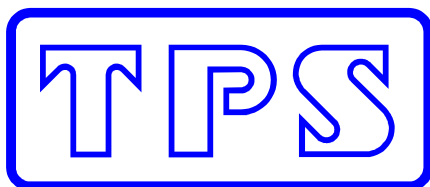
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HEALTH HAZARD INFORMATION

Health Effects :

- Swallowed** : May cause irritation of the gastric system.
- Eye** : May be irritating to eye tissue.
- Skin** : May irritate skin tissue.
- Inhaled** : Not considered a hazard with normal laboratory use. Mists may cause irritation of mucous membranes.
- Chronic Effects** : No data available

First Aid :

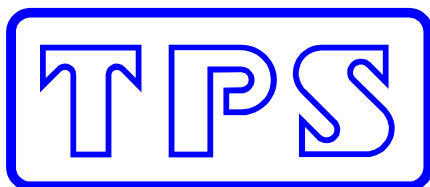
- Swallowed** : If conscious wash out mouth with water. Seek medical advice. Show this MSDS to medical practitioner.
- Eye** : Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this MSDS to medical practitioner.
- Skin** : Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this MSDS to medical practitioner.
- Launder 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

PRECAUTIONS FOR USE

- Exposure Limits** : Worksafe - None Established
- Engineering Controls** : Not usually required with normal use. If mists or aerosols generated, maintain personal exposure to minimal concentrations with extraction ventilation.
- Personal Protection** : Wear protective clothing including safety glasses and rubber or PVC gloves.
- Flammability** : Not flammable.



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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. Decomposition products include oxides of carbon and nitrogen.

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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