

Infosafe No™	3CH7L	Issue Date : February 2020	RE-ISSUED by ACR
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Product Name : **TISAB II Buffer**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** TISAB II Buffer  
**Company Name** AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211)  
**Address** 38 - 50 Bedford Street Gillman  
 S.A. 5013 Australia  
**Telephone/Fax Number** Tel: (08) 8440 2000  
 Fax: (08) 8440 2001  
**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)  
**Recommended use of the chemical and restrictions on use** Laboratory reagent.

**Other Names**

**Name**

**Product Code**

**Other Information**

TISAB II Buffer LR for fluoride determination  
 EMERGENCY CONTACT NUMBER: +61 08 8440 2000  
 Business hours: 8:30am to 5:00pm, Monday to Friday.

0597

Australian Chemical Reagents (ACR) does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Chemical Reagents (ACR) with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Chemical Reagents (ACR) is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Eye Damage/Irritation: Category 2A  
 Skin Corrosion/Irritation: Category 2  
**Signal Word (s)** WARNING  
**Hazard Statement (s)** H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
**Pictogram (s)** Exclamation mark



**Precautionary statement – Prevention** P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
**Precautionary statement – Response** P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.  
**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/information on ingredients

**Chemical Characterization** Liquid

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Acetic acid	64-19-7	5-7 %
Sodium chloride	7647-14-5	4-6 %
Sodium Hydroxide	1310-73-2	<2.5 %
trans-1,2-Diaminocyclohexane- N,N,N',N'-tetraacetic acid monohydrate	125572-95-4	<1 %
Sodium azide	26628-22-8	0.01 %
Water to make a total of 100%	7732-18-5	-

**Other Information** Contains a trace of sodium azide.

#### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
<b>Skin</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
<b>Eye contact</b>	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

#### 5. Fire-fighting measures

<b>Hazards from Combustion Products</b>	May liberate toxic fumes in fire.
<b>Specific Methods</b>	No limitations to the type of extinguishing media. Use suitable extinguishing media for surrounding fire.
<b>Specific hazards arising from the chemical</b>	Material does not burn.
<b>Precautions in connection with Fire</b>	Wear SCBA and chemical splash suit.

#### 6. Accidental release measures

<b>Personal Precautions</b>	Avoid inhalation, contact with skin, eyes and clothing.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Absorb with dry earth, sand or other non-combustible material. Neutralise with lime or soda ash. Use clean nonsparking tools to collect and seal in properly labelled drums for disposal in an area approved by local authority bylaws. Wash area down with excess water to remove residual material.

#### 7. Handling and storage

<b>Precautions for Safe Handling</b>	Keep container tightly closed when not in use. Avoid prolonged or repeated contact with skin and eyes.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in cool place.

#### 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Acetic acid	37	15	25	10	

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Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium Hydroxide			2		Peak limitation
	Sodium azide			0.3	0.11	Peak limitation
<b>Other Exposure Information</b>	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m <sup>3</sup> . All atmospheric contamination should be kept to as low a level as is workable. A time weighted average (TWA) has been established for Acetic acid (Safe Work Australia) of 10 ppm (25 mg/m <sup>3</sup> ). The corresponding STEL (Short Term Exposure Limit) is 15 ppm (37 mg/m <sup>3</sup> ). The STEL is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A Peak Limitation has been established for Sodium hydroxide (Safe Work Australia) of 2 mg/m <sup>3</sup> . 'Peak Limitation' - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.					
<b>Appropriate engineering controls</b>	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.					
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.					
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.					
<b>Body Protection</b>	Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.					
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.					

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear, colourless liquid
<b>Odour</b>	Odourless.
<b>pH</b>	pH 5 - 5.5

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Strong oxidising agents, strong reducing agents.
<b>Hazardous Decomposition Products</b>	May liberate toxic fumes in fire.

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**Hazardous Polymerization** Will not occur.

## 11. Toxicological Information

**Ingestion** May cause irritation to digestive tract.  
**Inhalation** May cause irritation to respiratory tract.  
**Skin** Causes irritation to the skin.  
**Eye** Causes serious eye irritation.  
**Carcinogenicity** No evidence of carcinogenic properties.  
**Mutagenicity** No evidence of mutagenic effects.

## 12. Ecological information

**Ecotoxicity** No ecological data available for this product. Quantitative data on the ecological effect of this product are not available.

## 13. Disposal considerations

**Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

## 14. Transport information

**Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. Regulatory information

**Poisons Schedule** Not Scheduled

## 16. Other Information

**Literature References** 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.  
 Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.  
 National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.  
 Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.  
 Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.  
 Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.  
 Safe Work Australia, 'Hazardous Chemical Information System, 2005'.  
 Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.  
 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.  
**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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