Safety Data Sheet

Date of Issue: 09.12.2023 Date of Expiry: 09.12.2028

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : **ECP Limited**
Address : PO Box 34125, Birkenhead, Auckland 0746
Telephone : +64 9 480 4386
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Emergency phone number : 0800 243 622 (24 hours)

Product Name	TISAB II
Product Code	60759
CAS No.	NA
Alternate name	May also be referred to as TISAB

Recommended use : Laboratory Investigations

2: Hazard's identification

GHS classification of the substance/mixture

Signal Word (s) WARNING

H315 Causes skin irritation. H319 Causes serious eye irritation. Hazard Statement (s)

Pictogram Exclamation mark 

P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Prevention 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 – Response Precautionary P501 Dispose of contents/container to an approved waste disposal plant.

3: Composition/information on ingredients

Product Name : TISAB II Buffer
Acetic acid 64-19-7 :- 5-7 %
Sodium chloride 7647-14-5 :- 4-6 %
Sodium Hydroxide 1310-73-2 :- 2.5% max

Acetic acid		5-7%
Sodium chloride		4-6%
Sodium hydroxide		2.5% max
trans-1,2-DiaminocyclohexaneN,N,N',N'-tetraacetic acid monohydrate	125572-95-4	4.2%
Sodium Azide	26628-22-8	
Water to make a total of 100%		

4: First aid measures

Inhalation 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. Inhalation

Ingestion 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.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.\

Eye contact 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.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

5: Firefighting measures

Hazards from combustion products May liberate toxic fumes in fire.

Material does not burn

No limitations to the type of extinguishing media. Use suitable extinguishing media for surrounding fire.

Wear SCBA and chemical splash suit. connection with Fire

6: Accidental release measures

Personal Precautions Avoid inhalation, contact with skin, eyes and clothing

Personal Protection Wear protective clothing specified for normal operations

Clean-up Methods - 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

Keep container tightly closed when not in use.

Avoid prolonged or repeated contact with skin and eyes .

Store in cool place

8: Exposure controls/personal protection

8.1 Control parameters
Occupational Exposure Limits Table

Component	CAS No.	Value	Control parameters	Basis
		WES-TWA	WES-TWA	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
Sodium Hydroxide	7647-14-5	WES-Ceiling	2 mg/m3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
Sodium azide	26628-22-8	WES-TWA	0.3mg/m3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
Acetic acid	64-19-7	WES-TWA	15ppm ; 37 mg/m3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

Other Exposure Information:- 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/m3. 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/m3). The corresponding STEL (Short Term Exposure Limit) is 15 ppm (37 mg/m3). 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/m3. '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

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

Form	Liquid
Appearance	Clear colourless liquid
Odour	Odourless
pH	5-5.5

10: Stability and reactivity

Stable under normal conditions
May Liberate toxic fumes in a fire

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

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

13: 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 Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	**UN Number**	0000	0000	0000
14.2	**UN Proper Shipping name**	NA	NA	NA
14.3	**Transport Hazard Class**	Non Hazardous	Non Hazardous	Non Hazardous
14.4	**Packaging group**	NA	NA	NA
14.5	**Environmental Hazards**	NA	NA	NA
14.6	**Special precautions for user**	Nil		

15: Regulatory information

Not scheduled or classified as hazardous

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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