

Infosafe No™	3CHEV	Issue Date : January 2018	RE-ISSUED by KINETIKP
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Product Name : **Tris HCl Buffer**

Not classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	Tris HCl Buffer
<b>Product Code</b>	931
<b>Product Type</b>	Water solution of ingredients.
<b>Company Name</b>	Kinetik Pty Ltd (ABN 53 605 811 532)
<b>Address</b>	Unit 10, 12 - 16 Robart Court, Narangba Queensland 4506 Australia
<b>Telephone/Fax Number</b>	Tel: 07 3203 0401 Fax: 07 3203 0421
<b>Recommended use of the chemical and restrictions on use</b>	Elisa assay reagent.
<b>Other Information</b>	EMERGENCY CONTACT NUMBER: +61 07 3203 0401 Business hours: 8:30am to 5:00pm, Monday to Friday.

Kinetik Pty Ltd 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 Kinetik Pty Ltd 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 Kinetik Pty Ltd 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**

<b>GHS classification of the substance/mixture</b>	Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
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**3. Composition/information on ingredients**

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Thimerosal	54-64-8	9 ppm		
	Sodium chloride	7647-14-5	0.9 %		
	Tris Hydroxymethyl Methylamine	77-86-1	0.61 %		
	Hydrochloric acid	7647-01-0	0.4 %		
	Water to make a total of 100%	7732-18-5	-		

<b>Other Information</b>	This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.
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**4. First-aid measures**

<b>Inhalation</b>	Inhalation of any vapours from this product is not likely to present an acute hazard.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.
<b>Skin</b>	Irritation unlikely. If irritation occurs wash with plenty of soap and water.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain 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 the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

**5. Fire-fighting measures**

Infosafe No™	3CHEV	Issue Date : January 2018	RE-ISSUED by KINETIKP
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<b>Hazards from Combustion Products</b>	No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.
<b>Specific Methods</b>	This product contains a substantial proportion of water therefore there are no restrictions on the type of extinguishing media which may be used. No limitations to the type of extinguishing media.

**6. Accidental release measures**

<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	No specific measures
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**8. Exposure controls/personal protection**

Occupational exposure limit values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Hydrochloric acid			5	7.5	Hydrogen chloride Peak Limitation

<b>Other Exposure Information</b>	No exposure standard has been established for this product. 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.
<b>Appropriate engineering controls</b>	No special equipment required.
<b>Respiratory Protection</b>	Not normally required.
<b>Eye Protection</b>	Normally not required but if in doubt ensure eye protection complies with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Normally not required but if in doubt ensure hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
<b>Personal Protective Equipment</b>	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
<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>Appearance</b>	Clear colourless solution.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	Approx. 0°C
<b>Boiling Point</b>	Approx. 100°C at 100kPa.
<b>Solubility in Water</b>	Completely.
<b>Specific Gravity</b>	1.00
<b>pH</b>	7.3 (after dilution 1 part to 20 parts water)
<b>Vapour Pressure</b>	2.37 kPa at 20°C (water vapour pressure)
<b>Flammability</b>	Non flammable.

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable under normal use conditions.
<b>Conditions to Avoid</b>	None known

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<b>Incompatible Materials</b>	None known
<b>Hazardous Decomposition Products</b>	No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.
<b>Hazardous Polymerization</b>	Will not occur.

### 11. Toxicological Information

<b>Toxicology Information</b>	No adverse health effects expected if the product is handled in accordance with this Material Safety Data Sheet and the product label.
<b>Ingestion</b>	Significant oral exposure is considered to be unlikely. Unlikely to causes any irritation problems.
<b>Inhalation</b>	Unlikely to cause any irritation or discomfort.
<b>Skin</b>	No adverse effects expected.
<b>Eye</b>	Believed to be non irritating to the eyes.
<b>Carcinogenicity</b>	Not classified as a human carcinogen. IARC: Hydrochloric Acid is Class 3 - unclassifiable as to carcinogenicity to humans.
<b>Mutagenicity</b>	No evidence of mutagenic properties.

### 12. Ecological information

<b>Ecotoxicity</b>	The product is believed to not be a dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other measures or relating to ecotoxicity.
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### 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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### 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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### 15. Regulatory information

<b>Regulatory Information</b>	All of the significant ingredients in this formulation are compliant with NICNAS regulations.
<b>Poisons Schedule</b>	Not Scheduled

### 16. Other Information

<b>Literature References</b>	'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 Substances 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]'. <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Kinetik Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on
<b>Contact Person/Point</b>	

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