



Safety Data Sheet

Infosafe No™ 3CHL0 Issue Date : March 2020 RE-ISSUED by ABS



Product Name : **ZAMBONI's Fixative**

Classified as hazardous

1. Identification

GHS Product Identifier	ZAMBONI's Fixative
Product Code	AZF
Company Name	AUSTRALIAN BIOSTAIN Pty Ltd
Address	24 - 28 Stratton Drive, Traralgon, Victoria, Australia, 3844 www.australianbiostain.com.au
Telephone/Fax Number	Tel: (03) 5176 2855
Emergency phone number	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use	Laboratory reagent.
Other Information	Australian Biostain 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 Australian Biostain 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 Australian Biostain 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

GHS classification of the substance/mixture	Sensitization - Skin: Category 1 Germ Cell Mutagenicity: Category 2 Carcinogenicity: Category 1B
Signal Word (s)	DANGER
Hazard Statement (s)	H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H350 May cause cancer.
Pictogram (s)	Health hazard, Exclamation mark  
Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
Precautionary statement – Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P308+P313 IF exposed or concerned: Get medical advice/attention.
Precautionary statement – Storage	P405 Store locked up.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.
Other Information	NOTE:- THE PREPARATION/FORMULATION OF THIS SOLUTION DE-POLYMERIZES THE PARA-FORMALDEHYDE TO FORMALDEHYDE, WHICH INFLUENCES THE CONTENT OF THIS SDS.



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 2 of 5

Infosafe No™ 3CHL0 Issue Date : March 2020 RE-ISSUED by ABS

Product Name : **ZAMBONI's Fixative**

Classified as hazardous

3. Composition/information on ingredients

Chemical	Liquid				
Characterization					
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Paraformaldehyde	30525-89-4	2 %		
	di-Sodium hydrogen orthophosphate anhydrous	7558-79-4	<2 %		
	Sodium dihydrogen phosphate anhydrous	7558-80-7	<0.5 %		
	Picric acid	88-89-1	<0.2 %		
	Water to make a total of 100%	7732-18-5	-		

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.
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 areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
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.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

5. Fire-fighting measures

Hazards from Combustion Products	Oxides of carbon.
Specific Methods	Small fire: Use foam, dry chemical, CO2 or water spray. Large fire: Use foam, fog or water spray - Do not use water jets. If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
Precautions in connection with Fire	SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

6. Accidental release measures

Personal Precautions	Ensure that all handling is carried out in an area of good ventilation, Certified fume cupboards are recommended. Wear protective eyewear, nitrile gloves and apron. In the event of spill confined to fume cupboard, contain spill with paper towel or similar absorbent material, collect into biohazard bag and seal for disposal with relevant authority. For spills outside of fume cupboard, remove unprotected staff from area, wear a suitable approved mask and faceplate fitted with HEPA and acid gas charcoal cartridge, contain spread of spill with paper towel, sawdust or vermiculite, collect into biohazard bags, seal and dispose through relevant authority; clean up area with cold (do not use hot water) soapy water; ventilate area till no vapours detected.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	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

Precautions for Safe Handling	Avoid fumes. Highly Flammable Material:- Do not use near any source of ignition. Use only in a well ventilated area. No smoking or eating of food in area of use. Keep containers tightly closed at all times. Store in a cool dry place that is well ventilated and away from direct sunlight.
--------------------------------------	---



Safety Data Sheet

Infosafe No™ 3CHL0 Issue Date : March 2020 RE-ISSUED by ABS

Product Name : **ZAMBONI's Fixative**

Classified as hazardous

Empty containers must be filled with water and rinsed out before disposal or recommissioning.
 Wear Safety glasses, gloves and protective apron.
 Work in an area of good ventilation, an approved fume cupboard is preferred.
 No eating or drinking in workplace, wash hands whenever leaving work area.
 Do not store with acids. Avoid all metal containers.

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Picric acid			0.1		
Other Exposure Information	<p>These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.</p> <p>STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.</p> <p>According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p> <p>A time weighted average (TWA) has been established for Formaldehyde (Safe Work Australia) of 1.2 mg/m3, (1 ppm). The corresponding STEL (Short Term Exposure Limit) is 2.5 mg/m3 (2ppm).</p>					
Appropriate engineering controls	<p>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.</p>					
Respiratory Protection	<p>Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.</p>					
Eye Protection	<p>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.</p>					
Hand Protection	<p>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.</p>					
Personal Protective Equipment	<p>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.</p>					
Hygiene Measures	<p>Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.</p>					

9. Physical and chemical properties

Form	Liquid
Colour	Clear, pale yellow liquid.
Odour	Characteristic.
Solubility in Water	Miscible.
Specific Gravity	1.017 @ 20°C
pH	8.2 approx (Pink to Phenolphthalein)



Infosafe No™	3CHLO	Issue Date : March 2020	RE-ISSUED by ABS
--------------	-------	-------------------------	------------------

Product Name : **ZAMBONI's Fixative**

Classified as hazardous

10. Stability and reactivity

Reactivity	May form an explosive mixture with air when vigorously heated.
Chemical Stability	Stable under normal use conditons. Very stable, resistant to polymerisation in this solution.
Conditions to Avoid	Temperature extremes.
Incompatible Materials	Oxidising agents, alkali metals, metals and alloys.
Hazardous Decomposition Products	May liberate toxic fumes in fire producing carbon monoxide and or carbon dioxide.
Possibility of hazardous reactions	Avoid oxidising agents and alkali metals.
Hazardous Polymerization	Will not occur.
Other Information	Note:- Avoid any situation where Hydrochloric acid vapours may mix with formaldehyde, as BCME (bis-chloro-methyl ether) may form, which is a very powerful carcinogenic agent.

11. Toxicological Information

Ingestion	May cause nausea, vomiting, headache, dizziness, gastric irritation.
Inhalation	Irritating to the mucous membranes and respiratory tract. May cause headaches, dizziness, nausea and possible chest pains.
Skin	May cause irritation, itchiness and redness.
Eye	May cause irritation and watering. High concentrations of vapours may cause irritation.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Sensitization - Skin: Category 1 H317 May cause an allergic skin reaction.
Germ cell mutagenicity	Germ Cell Mutagenicity: Category 2 H341 Suspected of causing genetic defects.
Carcinogenicity	Carcinogenicity: Category 1B H350 May cause cancer.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Aspiration Hazard	Not classified based on available information.

12. Ecological information

Persistence and degradability	Biodegradable. Expected half life of ½ a day released into air; photolysis rapidly breaks it down and is rapidly removed in wet and dry conditions. Expected half life of 1-10 days if released in water. Is broken down by organic matter in soil and rapidly evaporates- leaching may also occur.
Mobility	Product is readily diluted with water, and may find its way into waterways, grasslands and soils.
Short Summary of Assessment of Environmental Impact	No ecological problems are to be expected when the product is handled and used with due care and attention.

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



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™	3CHLO	Issue Date : March 2020	RE-ISSUED by ABS
--------------	-------	-------------------------	------------------

Product Name : **ZAMBONI's Fixative**

Classified as hazardous

Regulatory Information	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. All of the significant ingredients in this formulation are compliant with NICNAS regulations.
Other Information	Poisons and Drug Regulations will vary from Country to Country: the Australian Poisons Act & Standard for the Uniform Scheduling of Medicines and Poisons June 2018 Schedules Formaldehyde solutions of >0.2% as Schedule 6, and the Signal word phrase required for Australia is 'POISON', check with local competent authority to determine if any other local Regulations apply.

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]'. ...End Of MSDS...
------------------------------	---

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.
The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.