

Safety Data Sheet **ZAMBONI's Fixative**

SDS no. MNC25ZMB • Version 1.0 • Date of issue: 2025-03-10

SECTION 1: Identification

GHS Product identifier

Product name ZAMBONI's Fixative

Product number AZF

Recommended use of the chemical and restrictions on use

Laboratory reagent.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

National contact

Name Australian Biostain Pty Ltd
Address 16 Shipwright Road
5016 Largs North SA
Australia

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Carcinogenicity, Cat. 1B
- Germ cell mutagenicity, Cat. 2

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- Serious eye damage/eye irritation, Cat. 2A
- Skin sensitizer, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H350	May cause cancer

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Other components either not classified as Hazardous under the GHS, or below cut-off concentrations to be classified as Hazardous.

Components

Component	CAS no.	Concentration
Water (EC no.: 231-791-2)	7732-18-5	>= 95 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
Paraformaldehyde	30525-89-4	<= 2 % (weight)
CLASSIFICATIONS: Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Carcinogenicity, Cat. 1B; Flammable solids, Cat. 2; Germ cell mutagenicity, Cat. 2; Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat. 2; Skin sensitizer, Cat. 1; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H228 - Flammable solid; H302 - Harmful if swallowed; H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H318 - Causes serious eye damage; H332 - Harmful if inhaled; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness; H341 - Suspected of causing genetic defects [route]; H350 - May cause cancer [route].		
Picric acid (EC no.: 201-865-9; Index no.: 609-009-00-X)	88-89-1	<= 0.2 % (weight)
CLASSIFICATIONS: Explosives, Division 1.1; Acute toxicity, inhalation, Cat. 3; Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 3. HAZARDS: H201 - Explosive; mass explosion hazard; H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H331 - Toxic if inhaled.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).
If inhaled	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.
In case of skin contact	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
In case of 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
If swallowed	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.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

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.

Specific hazards arising from the chemical

Oxides of carbon.

Special protective actions for fire-fighters

SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

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.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid fumes.

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.

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.

Conditions for safe storage, including any incompatibilities

Do not store with acids. Avoid all metal containers.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 88-89-1

Picric acid

AU/SWA (Australia): 0.1 mg/m³ TWA inhalation

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

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.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be

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made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	No data available.
Color	Clear, pale yellow liquid.
Odor	Characteristic.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	8.2 approx (Pink to Phenolphthalein)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Miscible.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 1.017 @ 20°C
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Very stable, resistant to polymerisation in this solution.

Possibility of hazardous reactions

May form an explosive mixture with air when vigorously heated.

Avoid oxidising agents and alkali metals.

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.

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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

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 corrosion/irritation

May cause irritation, itchiness and redness.

Serious eye damage/irritation

May cause irritation and watering. High concentrations of vapours may cause irritation.

Respiratory or skin sensitization

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: 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.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

SECTION 12: Ecological information

Toxicity

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.

Persistence and degradability

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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 in soil

Product is readily diluted with water, and may find its way into waterways, grasslands and soils.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

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Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)