

SAFETY DATA SHEET

Prepared according to GHS Regulations and Code of Practice

Linvasan

Section 1 IDENTIFICATION. Product identifier & chemical identity

Product Name LINVASAN
Other Names No other names
Product Code L2
Current Edition 28 November 2019
Review 2024

Summary Linvasan is a clear, colourless, stabilised liquid tartaric peroxyacid sanitiser comprising distilled/demineralised water, BP/FCC tartaric acid and hydrogen peroxide.

Recommended use After the surface cleaning process, and as a precursor before vessel refilling, in a surface disinfecting regime in either an ambient aqueous solution in a circulatory pressure spray-washing system or static soaking of fittings and articles of stainless steel and other connected plastic (HDPE/PP) surfaces.

Company Wine Industry Support Enterprises Pty Ltd - A.C.N. 099 644 416
AIRD-Innovations in Chemistry ®™



Telephone International (+61) 2 9045 9920
Australia (02) 9045 9920

Location Unit 6, 59 – 65 Berrima Road, Moss Vale NSW 2577
Postal PO Box 40, Tahmoor NSW 2573
Email info@airdchemistry.com

Emergency telephone: Australia 0417 894 682
New Zealand Office 9-836-4974
Mob. 021 505 331

Section 2 HAZARDS IDENTIFICATION.

Classification This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE. Corrosive to metals, Oxidising



Label elements Signal words (GHS07): DANGER. WARNING

Physical Hazards H290: May be corrosive to soft metals

Health Hazards H272: Vapour may intensify fire; oxidizer
H319: Causes serious eye irritation
H302: Harmful if swallowed
H316: Causes mild skin irritation
H335: May cause respiratory irritation
H319: Causes serious eye irritation

Precautionary statement(s)
P102: Keep out of reach of children
P233: Keep container(s) tightly closed with a venting plug insert in the cap
P234: Keep only in the original vented container
P260: Do not breathe fumes, mist or vapours
P264: Wash hands thoroughly after handling
P270: Do not eat or drink when handling this product
P280: Use personal protective equipment as recommended
P310: If exposed, immediately call a POISON CENTRE or doctor/physician

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Section 3 COMPOSITION & INFORMATION ON INGREDIENTS

A mixture from	Distilled/demineralised water	CAS	7732-18-5
	Tartaric acid BP/FCC	CAS	87-69-4, 526-83-0
	Proprietary stabiliser, chelate, corrosion inhibitor		
	Hydrogen peroxide	CAS	7722-84-1

Further references Chemical Abstract Service (CAS)

Section 4 FIRST AID MEASURES

First Aid Facilities Eye and hand washing station

Preliminary Notes The following information applies to the product in its concentrated form.

Ingestion It is likely to cause a sore throat, stomach distention, diarrhoea, abdominal pain, nausea & vomiting.
Rinse the mouth with water. Give water to drink (2 glasses). Do not induce vomiting.
If vomiting occurs wash out the mouth with water provided the victim is conscious.
Seek immediate medical advice.

Eye Will cause severe eye irritation. Extended contact can cause severe optic damage.
Remove any contact lenses and Immediately irrigate with copious amounts of water for at least 15 minutes while holding eyelids open.
Seek Medical advice if irritation persists.

Skin The liquid concentrate has a strong corrosive transient whitening effect on skin.
Prolonged contact of this material may lead to local redness, or itchiness with transient whitening 'burns' on most skin types.
Wash affected skin immediately with plenty of soap & water.
Remove any contaminated clothing & wash before re-use.
If irritation persists seek Medical advice.

Inhaled Accidental or prolonged inhalation of may cause coughing fits.
Remove the victim from the source of exposure to fresh air.
Allow the patient to assume the most comfortable position.
Keep the patient warm until fully recovered. Seek Medical advice if coughing persists.

Advice to Doctor Treat symptomatically as for corrosive alkali exposure.

Health effects From available information, no adverse effects are anticipated from occasional over-exposure.

Section 5 FIRE FIGHTING MEASURES

Specific hazards Non-combustible, non-flammable liquid,
but a corrosive, oxidising substance.

Fire-fighting advice Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if there is a risk of exposure to the products of decomposition.

Extinguishing media Not flammable, but if this material is involved in a fire use a water fog or a fine water spray to dilute, diminish spilled solutions of this material.

Hazchem Emergency Action Code: Not applicable.

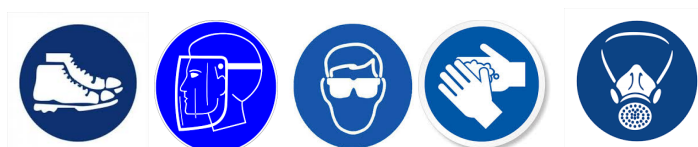
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Section 6 ACCIDENTAL RELEASE MEASURES

Ensure that the clean-up is conducted by trained personnel.
Avoid creating splashes when removing the spilt material.
Avoid breathing any existing vapour. Increase ventilation on site if mists or vapours are a problem.
Wear appropriate protective equipment including boots, safety glasses with splash visor, chemical resistant gloves and an approved respirator for airborne mist or vapour.



Collect by brooming or wet vacuuming, mop or scoop, place and seal material in properly labelled plastic containers or drums for disposal according to the local regulations.
Wash-down affected area with plenty of water.
Hard surface aqueous solutions may be slippery.

Section 7 HANDLING & STORAGE

- > Handle all packages with due care.
- > Avoid contact with the skin and eyes.
- > Store in a dry, ventilated, cool place (10-20°C), and away from incompatible materials and foodstuffs, and out of direct sunlight and away from heat.
- > Keep all containers sealed with appropriate venting plugs/caps when the product is not in use to maintain quality and minimise contamination.
- > Check regularly for spillages, leaking or heat affected containers.

Section 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Occupational Exposure Limits

No value has been assigned for this product by **SafeWork Australia**,
(Safe Work Australia is an Australian Government statutory agency est.2009.)

Published NOHSC Exposure Standard(s) for this substance...Hydrogen peroxide.

Hazardous, corrosive-oxidising liquids Peak Limitation: TWA = 1.4 mg/m³
TWA = 1.0 ppm

TWA

Time weighted average airborne concentration over an 8 hour working day, for a 5 day working week over an entire working life.
These exposure standards are only 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 exposure standards should not be used as fine dividing lines between safe and/or dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Control Measures

Ensure ventilation is adequate and that air/material concentrations are controlled below quoted Exposure Standards. Avoid generating airborne mists.

Personal Protective Equipment

Appropriate work clothing and shoes/boots, safety visor & glasses, chemical resistant gloves, mist/vapour mask/respirator (AS/NZS 1715,1716)

Other protective Measures

Ensure that your personal hygiene is maintained. Always wash your hands before smoking, eating, drinking and using the toilet.
Wash contaminated clothing and other protective equipment before storage or re-use.

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Section 9 PHYSICAL & CHEMICAL PROPERTIES

Physical state	Clear aqueous liquid
Colour	Colourless
Odour	Slight /typical acid-peroxide
Molecular formula	A mixture - Not relevant
Melting Point	Aqueous solution. Not applicable
Solubility in Water	Complete, all proportions
Specific Gravity	Approx.1.16 (water = 1.0)
Particle size Range	Not applicable
Flash Point (°C)	Not applicable. Non-flammable
pH range	<2.0 (1% w/v aqueous soln.)
BP (°C)	95-100
Active components	45-55% avge

Section 10 STABILITY & REACTIVITY

This material is stable when stored correctly and used as recommended. If stored continuously at high temperatures, i.e. >30°C it will commence to degrade, and may cause a situation where heat is likely to cause a violent rupture of containers. Although this product is not flammable, it contains hydrogen peroxide, the components of which (hydrogen and oxygen) will support combustion. As a concentrate it is corrosive toward aluminium and galvanised steel in aqueous solutions. It will effervesce strongly in contact with an alkali. Polymerisation will not occur.

Section 11 TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this safety data information and the product label.

Symptoms or effects that can arise if this product is mishandled are discussed in Section 4 – First Aid Measures as above. The product is an irritant for the eyes and may irritate the skin and respiratory tract.

Long term effects	No information available for this product		
Toxicological data	Aqueous Hydrogen peroxide	Oral LD50 (rat)	>800 mg/kg
		Optical (rabbit)	50mg/24hr
		Skin	1mg/hr
		Inhalation	No information
Carcinogenicity Mutagenicity	From available information, this substance is not classified as carcinogenic, and , Is non-mutagenic, non-teratogenic.		

Section 12 ECOLOGICAL INFORMATION

Avoid contaminating the environment with concentrate material.
Avoid disposal to natural waterways with concentrated non-neutralized solutions.

Degradability	Aqueous solutions of this product are highly biodegradable (<30days)
Eco-toxicity	In a dilute aqueous solution it is not expected to harm marine or aquatic life. Degrades to principally to organic acid, hydrogen and oxygen.

Section 13 DISPOSAL CONSIDERATIONS

Refer to the Waste Management Authority.
Dispose of through a licensed waste contractor.

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Section 14 TRANSPORT INFORMATION

Label	In accordance with the GHS/NOH&SC 'Code of Practice' for workplace substances.	
Road/Rail Transport	Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road & rail.	
Marine Transport	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.	
Codes	UN No.	3093
	DG Class	8 (Corrosive to metal-acidic)
	Subsidiary Risk	5.1 (oxidising)
	Packaging Group	2
	Hazchem Code	2W
	EPG (AS 2931)	8D1 – Corrosive, Oxidising, N.O.S.
	Poisons Schedule	5
	AHECC	3808.94.05 Other - in liquid form

Section 15 REGULATORY INFORMATION

Under GHS substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the (M)SDS. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use.

Note: The hazard statements and symbols presented here refer to the hazard properties of the concentrated substance and are meant to provide a brief overview of the substance's labelling. It is not intended to be comprehensive or to replace information found in the (M)SDS.

Labelling according to UN GHS is the basis for country specific GHS labelling

Signal word: Danger. Warning
Hazard statements: Physical, Health and Precautionary Statements
Sec.2 Page 1 this SDS

Classification This material is hazardous according to Safe Work
Australia;
HAZARDOUS SUBSTANCE. Corrosive, oxidising



Label elements Signal words (GHS07): DANGER, WARNING

Physical Hazards H290: May be corrosive to soft metals

Health Hazards H302: May be harmful if swallowed
H320: Causes eye irritation
H316: Causes mild skin irritation

This product is regulated (UN code = 3093)
If one of the principle ingredients of this stabilised liquid mixture, aqueous Hydrogen peroxide is assessed then the following chart could be prepared.

HAZARDS SUMMARY
Health=2 Instability=1 Flammability=0 Special Haz=Corrosive, Oxidising

Where 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, 5=Special Hazards

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Section 16 OTHER INFORMATION

REFERENCES

GHS Hazard Statements, Precautionary Statements; GHS Hazard Pictograms – EU Geneva Switzerland

HSNO Classifications – New Zealand

8.1A Substances that are corrosive to metal

Registry of Toxic Effects of Chemical Substances

D.Sweet, US Dept of Health and Human Services: Cincinatti 2003.

HERA(Human & Environmental Risk Assessment)- Hydrogen peroxide

HERAPROJECT EU Report Summary - March 2002.

Approved Criteria for classifying Hazardous Substances,

National Code of Practice for the Labelling of Workplace Substances,

*Preparation of Safety Data Sheets for **Hazardous** Chemicals*

*Managing Risks of **Hazardous** Chemicals in the Workplace*

Safework Australia (National Occupational Health and Safety Commission)

APPROVALS and COMPLIANCE

Australia

The materials in Linvasan assist companies to comply with the FSANZ (Food Standards Australia & New Zealand) Standards for Food contact surface hygiene.

Linvasan complies with the Dept. of Agriculture, Fisheries and Forestry (DAFF), Australian Quarantine Inspection Service (AQIS) and the Organic Federation of Australia (OFA) and affiliates approved substances for organic biodynamic food production.

The National Standard for Organic and biodynamic produce, Edition 3.4 of 1/7/2009

Item 9 – Retail/Wholesale/Export

Substances permitted for sanitation, storage handling, Page 56, Appendix 11, Annex A, Items 1, 3 and 4.

DISCLAIMER

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of this product and general guidance on how to handle the material in the workplace.

If clarification or further information is needed, the user should contact us from the information in the Materials and Supplier information - Section 1, Page 1 herein.

This information is supplied in good faith, but since data, safety standards & Government regulations are subject to change, and, as the conditions of handling and use or misuse are beyond our control, we make no warranty, either express or implied, with respect to the completeness or accuracy of the information contained herein subsequent to the time of compilation.