

MATERIAL SAFETY DATA SHEET (MSDS)

Hazardous according to criteria of NOHSC Australia

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	AD-TEK Ligno R (Aqueous Solution)
Recommended use	Water reducing admixture for concrete
Synonyms	
CAS-No.	
Molecular Formula	
Supplier	Ad-Tek Pty Ltd
ACN	
ABN	
Street Address	12 Frankston Gardens Drive Carrum Downs VIC 3201 Australia
Telephone	+ 613 9782 5348
Facsimile	+ 613 9782 3244
Emergency telephone numbers	Victor Vyrodov 0413 628 820 Shane Cooper 0419 584 320

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization	Aqueous polymer solution
----------------------------------	--------------------------

CHEMICAL ENTITY	CAS NO.	PROPORTION
Mixture of 5-chloro-2-methyl-2H-isothiazal-3-one and 2-methyl-2H-isothazaol-3-one (3:1)	55965-84-9	20-40 ppm
Non hazardous ingredients		to 100%

PROPORTION (% weight per weight)	VHIGH>60 HIGH 30-60 MED 10-29 LOW 1-9 VLOW <1
---	---

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

3. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of NOHSC Australia.

Hazard Category	
Xi Irritant	Xn Harmful

Risk Phrase(s)	
R36/38	Irritating to eyes and skin
R21/22	Harmful in contact with skin and if swallowed

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126; New Zealand 03 474 7000).

Inhalation	Remove to fresh air. Lay patient down. Keep warm and rested. Seek medical assistance.
Skin contact	Remove contaminated clothes, wash before reuse. Wash skin with plenty of soap and water. If swelling, redness, blistering or irritation occurs seek medical assistance.
Eye contact	Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove contact lenses. Urgently seek medical assistance.
Ingestion	Immediately rinse mouth with water. Give water to drink. DO NOT INDUCE VOMITING. Seek immediate medical assistance.
First aid facilities	Ensure availability of clean water for eye/skin wash.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Special hazards	Non-combustible material
Suitable extinguishing media	Foam, CO ₂ and Dry Chemicals
Hazards from thermal decomposition	Oxides of carbon and sulphur, smoke and other toxic fumes
Special protective precautions and equipment for fire fighters	None
Hazchem code	None allocated

6. ACCIDENTAL RELEASE MEASURES

Methods for clean up / collecting	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Caution slippery when spilt. Stop leak if possible without risk. Spills should be contained by absorbing with dry inert filler (soil, sand or vermiculite). Collect and seal in properly labelled containers for disposal. Carefully dilute with water. Wash down area with excess water into a containment area or contain with inert filler for disposal.
Environmental precautions	Do not discharge into sewers or waterways.

7. HANDLING AND STORAGE

Handling	Avoid skin and eye contact.
Storage	Store in a covered, cool and dry, well ventilated area. Keep containers closed when not in use – check regular for leaks. Store away from incompatible materials described in Section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection	The following personal protective equipment should be worn. Safety glasses, goggles or face shield as appropriate. Rubber gloves. Appropriate protective clothing. Suitable respirator. Avoid all contact. Wash contaminated clothing and protective equipment before storing/re-using. Always wash hands before smoking, eating, drinking or using the toilet. Ensure an eye bath and water for washing of skin and rinsing of mouth is available.
Engineering controls	No specific engineering controls required. Use in a well ventilated area.
National occupational exposure limits	No value assigned for this specific material by the NOHSC Australia.
Other	Use barrier creams to protect skin from contact with the material. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour	A brown liquid with specific odour
Specific gravity @ 20°C	Approx 1.18 kg/litre
Solubility in water	Completely miscible
pH	5-7
Boiling point (°C)	> 100
Vapour pressure @ 25°C (kPa)	Not applicable
Melting point (°C)	Not applicable
Flammability limits	Not applicable
Flash point (°C)	Not applicable
Ignition temperature	Not applicable

10. STABILITY AND REACTIVITY

Chemical stability	Thermally stable when stored and used directed.
Conditions to avoid	Elevated temperatures.
Incompatible materials	Oxidising agents.

11. TOXICOLOGICAL INFORMATION

Acute effects Inhalation	May be an irritant to mucous membranes and respiratory tract.
Skin contact	Prolonged or repeated skin contact may lead to irritation.
Eye contact	May be a slight irritation.
Ingestion	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Acute and chronic toxicity	No LD ₅₀ data available for the product.
Long Term Effects	No information available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating soil and waterways.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

Precautions for clean up crew are described as the personal protection in section 8.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No.	None allocated
Class-primary	Liquid
Packing group	None allocated
Dangerous Goods Class	None allocated
Hazchem code	None allocated
Proper Shipping Name	AD-TEK Ligno R.
Segregation Dangerous Goods	Not to be loaded with acid containers.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.	None allocated
Class-primary	Liquid
Packing group	None allocated
Dangerous Goods Class	None allocated
Hazchem code	None allocated
Proper Shipping Name	AD-TEK Ligno R.
Segregation Dangerous Goods	Not to be loaded with acid containers.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No.	None allocated
Class-primary	Liquid
Packing group	None allocated
Dangerous Goods Class	None allocated
Hazchem code	None allocated
Proper Shipping Name	AD-TEK Ligno R.
Segregation Dangerous Goods	Not to be loaded with acid containers.

15. REGULATORY INFORMATION

Hazardous according to criteria of NOHSC Australia.

Hazard Category	
Xi Irritant	Xn Harmful

Risk Phrase(s)	
R36/38	Irritating to eyes and skin
R21/22	Harmful in contact with skin and if swallowed

Safety Phrase(s)	
S7/9	Keep container tightly closed in a well ventilated place.
S24/25	Avoid contact with skin and eyes.
S36/37	Wear suitable protective clothing and gloves.

This material is not listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION Literary reference

This Material Safety Data Sheet has been prepared by Ad-Tek Pty Ltd from information obtained from MSDS provided by the suppliers of the various chemicals used in this product.

For further information about this product contact:

Victor Vyrodov / Shane Cooper

Phone: 03 9782 5348

Reason(s) for issue: To meet requirements of NOHSC: 2011 (2003)

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Ad-Tek Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.