

SAFETY DATA SHEET (SDS)

Hazardous according to criteria of NOHSC Australia

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

| | |
|------------------------------------|--|
| Product Name | AD-TEK HWRR _e (Aqueous Solution) |
| Recommended use | High range water-reducing and set-retarding admixture for concrete |
| Synonyms | |
| CAS-No. | |
| Molecular Formula | |
| Supplier | Ad-Tek Pty Ltd |
| ACN | |
| ABN | 49 152 312 742 |
| 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

| | |
|--|--|
| Fire hazards | Non-combustible material |
| Suitable extinguishing media | Foam, CO2 and Dry Chemicals |
| Hazards from thermal decomposition | Oxides of carbon and nitrogen, smoke and other toxic fumes |
| 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 | Moderate viscose light brown liquid with specific odour |
| Specific gravity @ 20 °C | Approx 1.08 kg/litre |
| Solubility in water | Completely miscible |
| pH | 3.0-5.0 |
| Boiling point (°C) | > 100 |
| Vapour pressure @ 25 °C (kPa) | Not available |
| Melting point (°C) | Not applicable |
| Flammability limits | Not applicable |
| Flash point (°C) | Not applicable |
| Ignition temperature | Not applicable |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical stability | The product is stable |
| Conditions to avoid | No specific Data |
| Incompatible materials | Strong acids and Oxidising agents |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced |

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 | Oral LD50(rat) > 5 g/kg Dermal LD50(rabbit) > 2 g/kg |
| Inhalation risk test | A highly saturated vapour and air mixture represents no acute hazard. No mortality within 8 hours in animal studies |
| Long Term Effects | No information available for 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 HWRRRe |
| 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 HWRRRe |
| 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 HWRRRe |
| 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.