MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PERMOSEAL (PTY) LTD		Tel.	+27 (0)21 555-7400
Beverley Close		Fax	+27 (0)21 552-1848
Montague Gardens, 7441		Toll-free No.	0800 222 400
Cape Town		Website	www.alcolin.com

TRADE NAME	**ALCOLIN ULTRA WOOD GLUE**	Chemical abstract no.	Mixture
Chemical family	Water soluble polymer	NIOSH no.	Unknown
Chemical name	Polyvinyl Acetate dispersion in water	Hazchem code	Non-hazardous material
Synonyms	Vinyl Acetate adhesive	UN no.	Non-hazardous material

2. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredient	CAS No.	Approx. (%)	Hazard Classification & Risk Phrases
2- (2-butoxyethoxy) ethanol	112-34-5	<10%	Unknown

3. HAZARDS IDENTIFICATION

Main hazard:	Toxic if swallowed
Health effects: Eyes	Moderate irritant to eyes
Health effects: Skin	Slight irritant to skin
Health effects: Ingestion	Harmful if swallowed
Health effects: Inhalation	Oil mist/vapours at elevated temperatures may cause respiratory arrest. Irritant to respiratory system.

4. FIRST- AID MEASURES

Product in eyes	Remove any contact lenses from the eyes before rinsing thoroughly with plenty of water (lift eye lids). Rinse for at least 15 minutes. Seek medical attention if any discomfort continues
Product on skin	Wash skin with soap and water – do not use solvents! Seek medical attention if irritation persists after washing
Product ingested	Never make an unconscious person vomit or drink fluids. Get the affected person to drink a lot of water in small gulps. Do not induce vomiting. Seek medical attention if discomfort continues
Product inhaled	Not applicable

5. FIRE-FIGHTING MEASURES

Extinguishing media	Water, dry chemical powder, foam, carbon dioxide or sand
Special hazards	In case of fire, hazardous combustion-gases are formed – CO. Under certain conditions of combustion traces of other toxic substances cannot be excluded
Protective clothing	In case of fire, wear respiratory protection

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Surface may be slippery. Evacuate area. Do not breathe vapours/mist. Wear PPE and respirator. Provide adequate ventilation
Environmental precautions	Avoid contamination of ground and water surfaces
Small spills	If recovery is not feasible, absorb with dry sand, soil or non-reactive absorbent material or coagulate by sprinkling sodium chloride over the spill. If product has dried, scrape off the ground. Place in a container suitable for disposal
Large spills	Stop leak if without risk. Ventilate area. Prevent entry into drains or sewers. Clean as per small spills

7. HANDLING AND STORAGE

Suitable material	Steel container lined with polyethylene or polypropylene, polyethylene, PVC containers
Storage precautions	Keep product in a sealed container at temperatures between 5 and 30°C. Minimize contact with atmosphere to prevent contamination with micro-organisms

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits	None
Engineering controls	Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above
Respiratory Protection	Not required under normal conditions of use in a well-ventilated space otherwise use a respirator
Hand Protection	Rubber gloves should be used if there is a risk of direct contact onto skin
Eye Protection	Safety glasses
Skin Protection	Observe the usual precautions when handling chemicals. Remove soiled or soaked clothing immediately
Other Protection	Wash hands at the end of each work shift and before eating

9. PHYSICAL PROPERTIES

- Appearance — Brown Viscous Liquid
- Odour — Characteristic PVAc
- pH — Approx 3.0
- Boiling point — Approx 100°C
- Explosive properties — None
- Flash Point — 93.3°C (Closed Cup)
- Oxidising properties — None
- Density (g/cm^3 @ 20°C) — Approx 1.11
- Solubility water — Miscible
- Solubility solvent — Incompatible
- Solubility coefficient — Unknown

10. STABILITY AND REACTIVITY

Conditions to avoid	Exposed air will form dry polymer skins. Avoid temperature extremes: below 5°C and above 30°C
Incompatible materials	Organic solvents, strong acids, strong alkalis, salts
Hazardous decomposition products	None

11. TOXICOLOGICAL INFORMATION

Acute toxicity: 2-(2-butoxyethoxy)ethanol

1.	LD50	Dermal	Rabbit 2700 mg/kg
2.	LD50	Oral	Rat 5660 mg/kg
3.	LD50	Oral	Rat 4500 mg/kg
4.	LD50	Oral	Rat 6050 mg/kg
5.	LD50	Unreported	Rat 4500 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic ecotoxicity: 2-(2-butoxyethoxy)ethanol

1. Acute LC50 2000000 ug/L Marine water
   Fish - Inland silverside Menidia beryllina - 40 to100 mm
   96 hours
2. Acute LC50 1300000 ug/L Fresh water
   Fish - Bluegill – Lepomis macrochirus - 33 to 75 mm
   96 hours

13. DISPOSIBLE CONSIDERATIONS

Disposal methods: Whatever cannot be saved for recovery or recycling should be handled according to current local waste disposal legislation. Do not allow to enter drains or sewers. Do not allow to enter any body of water

Disposal of packaging: Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse or disposed of in approved facility in accordance with current local legislation

14. TRANSPORT REGULATIONS

UN no		Not regulated
Substance identity no.		Not regulated
Road / rail transport	ADR / RID	Not regulated
Marine Transport	IMDG	Not regulated
Inland waterways	ADNR	Not regulated
Air transport	IATA	Not regulated

15. REGULATORY INFORMATION

EEC hazard classification	Not determined
Risk phrases	n/a
Safety phrases	n/a
National legislation	n/a

16. OTHER INFORMATION

For intended use and applications see the Technical Date Sheet for the product. The information provided in this Material Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Recipients of our product must take responsibility for observing existing laws and regulations