



ALCOLEX 420

SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product identifier

Product name Alcolex 420
Chemical family Polyurethane dispersion

1.2. Intended use of the product

Adhesive designed for vacuum forming and membrane pressing of PVC foils onto processed board composites in the furniture industry.

1.3. Name, address, and telephone of the responsible party

Company: Permoseal (Pty) Ltd
Address: 1 Beverley Close, Montague Gardens, 7441, Cape Town, South Africa
Phone: +27-21-555-7400
Toll-free No. 0800-222-400
Website: www.alcolin.com

1.4. Emergency phone number

+27-21-555-7400

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification This product is not hazardous.

2.2. Label elements

GHS Labelling No labelling applicable

2.3. Other Hazards

No additional information available.

2.4. Unknown acute toxicity

No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture. This product is not hazardous.

4. FIRST-AID MEASURES

4.1. Description of first aid measures

General Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
Inhalation Move to fresh air and seek medical attention.
Skin contact Wash skin with mild soap and water. Seek medical attention if irritation persists.
Eye contact Rinse cautiously with water for 15 minutes. Remove any contact lenses if present and easy to do. Continue rinsing. Seek medical attention if any discomfort continues.
Ingestion Rinse mouth. Do not induce vomiting. Get the affected person to drink a lot of water in small gulps. Obtain medical attention.

4.2. Most important symptoms and effects both acute and delayed

General	May cause irritation.
Inhalation	None expected under normal conditions of use.
Skin contact	Prolonged contact may cause skin irritation.
Eye contact	Not expected to cause eye irritation.
Ingestion	Not expected to show any significant signs or symptoms indicative of any adverse health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically
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5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Water, dry chemical powder, foam, carbon dioxide or sand
Unsuitable ext. media	Not applicable

5.2. Special hazards arising from the substance or mixture

Fire hazard	Not flammable in wet state
Explosion hazard	Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions	Exercise caution when fighting any chemical fire.
Protection during firefighting	Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous combustion products	Under certain conditions of combustion, traces of toxic substances cannot be excluded.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Do not get in eyes or skin, or on clothing. Contaminated surfaces will become very slippery.
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6.2. For non-emergency personnel

Protective equipment	Use appropriate personal protection equipment (PPE)
Emergency procedures	Evacuate unnecessary personnel.

6.3. For emergency personnel

Protective equipment	Use appropriate personal protection equipment (PPE)
Emergency procedures	Secure the area and evacuate unnecessary personnel.

6.4. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.5. Methods and materials for containment and cleaning up

For containment	Absorb and or contain spill with inert material.
Methods for cleaning up	If recovery is not feasible, absorb with inert material. Place in a container suitable for disposal. Dispose of in accordance with current local legislation.

6.6. Reference to other sections

Refer to Section 8, Exposure controls and personal protection.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling temperature	Normal ambient temperature
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating or drinking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a dry, cool and well-ventilated place. Protect from cold (<7°C) and exposure to temperatures exceeding 30°C. Keep container closed when not in use to minimize contact with the atmosphere to prevent contamination with micro-organisms.
Incompatible materials	Organic solvents, strong acids, strong alkalis and salts
Maximum storage period	6 months, but may vary depending on storage conditions.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

There are no established exposure limits for this product.

8.2. Exposure controls

Engineering controls	Not required under normal conditions of use in a well-ventilated space.
Personal protective equipment	Use appropriate personal protection equipment (PPE).
Eye protection	Safety glasses
Hand protection	Use protective latex or nitrile gloves to prevent contact.
Respiratory protection	Not required under normal conditions of use in a well-ventilated space.
Other information	When using, do not eat or drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Milky white liquid
Odour	Mild
pH	Approximately 6.9
Density (g/cm ³ @ 20°C)	Approximately 1.05
Freezing point (°C)	Approximately 0 (water)
Boiling point (°C)	Approximately 100 (water)
Flash point (°C)	Not flammable
Solubility water	Miscible

10. STABILITY AND REACTIVITY

Reactivity	None expected under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None expected under normal conditions
Conditions to avoid	Extremely high or low temperatures, may coagulate if frozen. Exposed air will form dry polymer skins.
Incompatible materials	Organic solvents, strong acids, strong alkalis, salts
Hazardous decomposition products	Thermal decomposition may release carbon monoxide, carbon dioxide and acetic acid.

11. TOXICOLOGICAL INFORMATION

This product has not undergone any toxicological testing. Acute and chronic health effects are not expected as long as good hygiene and safety precautions are followed.

11.1. Acute toxicity:

Ingredients	Route of Exposure	Species/Test System	Result/Effect
Vinyl acetate ethylene	Oral	Rat	LD ₅₀ : >2000 mg/kg
Polyurethane dispersion	Oral	Rat	LD ₅₀ : >2000-10000 mg/kg

12. ECOLOGICAL INFORMATION

This product has not been tested for environmental effects. Based on its components, this product is unlikely to result in any detrimental ecological effects.

12.1. Further ecological information

Ingredients	Species/ test system	Result/Effect
Vinyl acetate ethylene	Fish Toxicity	96hrs LC ₅₀ (Rainbow trout): >100 mg/l
Polyurethane dispersion	Fish Toxicity Daphnia Toxicity Aquatic Toxicity	96hrs LC ₅₀ (Brachydanio rerio): 100 mg/l 48hrs EC ₅₀ (Daphnia magna): >100 mg/l 72hrs EC ₅₀ (Scenedesmus subspicatus): >100 mg/l

13. DISPOSABLE CONSIDERATIONS

Sewage disposal recommendations	Do not dispose waste into sewer.
Waste disposal recommendations	Whatever cannot be saved for recovery or recycling should be disposed of in accordance with current local legislation.

