

Evasol Adhesive

Specifications

An archival, neutral, buffered, reconstitutable synthetic adhesive

A co-polymer formulated specifically for the Conservation industry

The characteristic of this EVA* co-polymer molecule is that it includes significantly less of the acid-forming polyvinyl acetate, which is present in greater quantities in PVAs, and more of polyethylene, the component in *Evasol* which does not form acid in either of its wet or dry state. Furthermore, the EVA molecule is made flexible by the presence of the long polyethylene co-polymer molecule. No plasticisers have been added to this formulation.

A particular feature of *Evasol* is its suitability for archival work, because of its neutral pH and buffering. It has a flexible film, excellent adhesion to a variety of substrates, including difficult surfaces coated with varnish, lacquer, paint, or plastic films such as PVC. It will begin to reconstitute to its white emulsion state within 10 seconds upon contact with water. It has been formulated to a pH of 7-8, and specifically buffered for use in the archival and conservation industry.

Evasol has been specially formulated to give good bonding to paper and paper board products. It has a medium open time, and this controlled drying permits a reduction in the warping or buckling of water-sensitive substrates. It may be diluted with water, or mixed with other adhesives such as starch paste or methyl cellulose, to the proportion of 10-15%, without significant loss to the initial EVA tack. Higher dilution or mix proportions may be used where other criteria, such as heavier weights of paper, or concerns of warping, are present.

Properties

Product Name	Evasol
Basic Resin	Ethylene vinyl acetate co-polymer (VAE*)
Viscosity	2000 – 3000 cps #3/6/25°C
Appearance	White; creamy and soft texture
Solids	Approximately 58 – 60%
Initial Tack	Medium
Setting Speed	Medium, in temperate climate conditions
Film-forming temperature	Approximately 5°C
Film Appearance	Very slight haze; sflexible film
Water sensitivity	Dry film will reconstitute to emulsion form
pH	7 – 8
Shelf Life	Indefinite. Do not refrigerate. May need occasional stirring

Passed PAT: http://www.naa.gov.au/recordkeeping/preservation/photographic_activity_test.html#table

* This water-based co-polymer is technically named VAE, but common usage erroneously uses the variant formula name EVA.

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE

CLASSIFIED AS **NON HAZARDOUS** ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA.

Evasol

CONSERVATION RESOURCES

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PRODUCT & TRANSPORT IDENTIFICATION

PRODUCT NAME: *Evasol*
OTHER NAMES: NOT APPLICABLE
U.N. NUMBER: NOT APPLICABLE
HAZARDOUS CLASS: NOT APPLICABLE
HAZCHEM CODING: NOT APPLICABLE
PACKAGING GROUP: NOT APPLICABLE
SUBSIDIARY RISK: NIL
POISONS SCHEDULE: NOT APPLICABLE

USE

Bookbinding, especially for Conservation and Archival work

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE: Milky white emulsion
BOILING POINT: 100 °C
VAPOUR PRESSURE: not available
SPECIFIC GRAVITY: 1.06
FLASH POINT: Not applicable
FLAMMABLE LIMITS: Not applicable
SOLUBILITY IN WATER : Extensive
pH: 6 - 8, Neutral - no free acid or alkali

HAZARDOUS INGREDIENTS

CHEMICAL NAME:	CAS NUMBER:	PROPORTION:
VINYLACETATE COPOLYMER	9003-20-7	60 - 90 %
VINYLACETATE MONOMER	108-05-4	< 0.1%
WATER & non hazardous minors	7732-18-5	to 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS: CONSIDERED TO BE PRACTICALLY NON-HARMFUL BY ALL EXPOSURE ROUTES

- Skin:** Repeated or prolonged contact with skin may result in irritation and dermatitic effects.
- Eyes:** May be an eye irritant.
- Inhalation:** Inhalation of spray mist may cause irritation to respiratory tract. As with any chemical, ingestion, and prolonged or repeated contact with skin should be avoided by good occupational work practice.
- Ingestion:** May result in nausea and vomiting

FIRST AID:

- Skin:** **Wash contaminated skin with plenty of soap and water.** Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
- Eyes:** Irrigate with copious quantities of water for fifteen (15) minutes. Seek medical assistance if effect persists.
- Inhalation:** Remove victim from exposure - avoid becoming a casualty. Seek medical advice if effects persist.
- Ingestion:** Thoroughly rinse mouth with water. Give plenty of water to drink. Induce vomiting using fingers in throat or Ipecac Syrup APF. Seek medical advice.

Advice to Doctor: Treat symptomatically.

PRECAUTIONS FOR USE:

Exposure Limits: No value assigned for this specific material by Worksafe Australia .However, Exposure Standard (TWA) for :

Vinyl Acetate - Residual Monomer is 10 ppm (30mg/m3)

Exposure Standard (TWA) is the time weighted average concentration of the work atmosphere for a normal eight (8) hour day and a forty (40) hour work week, to which nearly all workers can be repeatedly exposed, day after day, without adverse effect. These TWA are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as practically possible. These TWA should not be used as fine lines between safe and dangerous concentrations.

- Ventilation:** Use with adequate ventilation.
- Personal Protection:** Avoid repeated and prolonged skin contact. Wear impervious gloves and safety glasses. Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Always wash hands before smoking, eating, drinking or using the toilet.
- Flammability:** Combustible following evaporation of the aqueous component.

SAFE HANDLING INFORMATION

Storage and Transport: Not defined as a Dangerous Good by the Australian Code for the transport of Dangerous Goods by Road and Rail.

Store in a cool place and out of direct sunlight. Keep containers closed.

Spills Slippery when spilt. Wear full protective equipment to prevent skin and eye contamination and inhalation of vapours. Contain using sand and earth. Use absorbent (soil or sand, sawdust, inert material, vermiculite). Collect and seal in properly labelled drums for disposal.

Wash area down with large quantities of water.

Disposal Refer to State Land Waste Management Authority. Normally suitable for disposal at approved land waste site.

FIRE / EXPLOSION HAZARD:

Combustible following evaporation of aqueous component on burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

SUPPLIER CONTACT POINT

On behalf of the manufacturer, contact CONSERVATION RESOURCES

PHONE: (+613) 8480 3200

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NON HAZARDOUS

NOT REGULATED