



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
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HEALTH AND SAFETY AND TECHNICAL INFORMATION

PVA M218

This grade has been specially formulated as a conservation paste and for other conservation book binding operations. The dried adhesive film has the capacity to de-laminate in the presence of water. However, as conservation can be varied and requirements differ, we recommend that the customer should test this product against their specific conservation requirements.

M218 is a medium viscosity compounded emulsion. It has excellent rheological properties, giving good running characteristics in a wide variety of coating and application systems. The emulsion dries to a strong flexible film.

This adhesive may be used in a variety of packaging and book binding applications, either by machine or hand, particularly suited for use on a Swift or Balema machine for hand case making.

Unlike most PVA's this adhesive has a built in resistance to yellowing due to ageing and also has a neutral pH.

TYPICAL PRODUCT DATA:

Total Solids	51.2%
pH	7.0
Viscosity	62.5 poises @ 20° C Brookfield LVT Spindle 4 Speed 60
Mechanical Stability	Excellent

SPECIAL NOTES:

Protect from frost.

Keep lids on containers to prevent skinning and drying out.

Always rotate stock, ensuring oldest material is used first.

Use product within 6 months of date of manufacture.

Material stored for prolonged periods should be agitated before use.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name PVA M218

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Details As per the heading at the top of this sheet

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Not classified.

2.2. Label elements

Risk Phrases NC Not classified.
Safety Phrases S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition Comments No hazardous materials present as defined by Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP 3)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information General first aid, rest, warmth and fresh air.
Inhalation Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion DO NOT induce vomiting. Get medical attention immediately.
Skin contact Remove affected person from source of contamination. Rinse the skin immediately with lots of water. Get medical attention if irritation persists after washing.
Eye contact Rinse the eye with water immediately. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Specific hazards Fire or high temperatures create: Toxic
gases/vapours/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective equipment for fire-fighters Wear self contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Do not contaminate water sources or sewer. Pick up with vacuum or absorbent solid, store in closed container for disposal. Avoid generation and spreading of dust. Avoid contact with skin or inhalation of spillage, dust or vapour. Wear necessary protective equipment. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Use mechanical ventilation in case of handling which causes formation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Gloves, goggles mask

Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

All handling to take place in well-ventilated area.

Respiratory equipment

Wear respirator if there is dust formation.

Hand protection

Use suitable protective gloves if risk of skin contact. Use thin cotton gloves inside the rubber gloves if allergy risk.

Eye protection

If risk of splashing, wear safety goggles or face shield.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash promptly if skin becomes wet or contaminated.

Promptly remove any clothing that becomes contaminated.

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

DO NOT SMOKE IN WORK AREA!

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Liquid

Colour White.

Relative density

1.08

Viscosity

62.5 Ps @ 20 °c

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

<u>10.2. Chemical stability</u>	Stable under normal temperature conditions.
10.3. Possibility of hazardous reactions	Hazardous Polymerisation Unknown.
<u>10.4. Conditions to avoid</u>	Avoid excessive heat for prolonged periods of time.
<u>10.5. Incompatible materials</u> Materials To Avoid	No incompatible groups noted.
<u>10.6. Hazardous decomposition products</u>	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂).

SECTION 11: TOXICOLOGICAL INFORMATION

<u>11.1. Information on toxicological effects</u>	Health Warnings Serious long-term effects are not known to be related to this type of product. Particles in the eyes may cause irritation and smarting. May cause discomfort if swallowed.
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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not regarded as dangerous for the environment. However, contamination of the aquatic or terrestrial environments should be avoided
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<u>12.1. Toxicity</u>	
<u>12.2. Persistence and degradability</u>	
<u>12.3. Bioaccumulative potential</u>	
<u>12.4. Mobility in soil</u>	
<u>12.5. Results of PBT and vPvB assessment</u>	
<u>12.6. Other adverse effects</u>	

SECTION 13: DISPOSAL CONSIDERATIONS

General information	This material is not classified as special waste as defined by Special Waste Regulations 1996.
<u>13.1. Waste treatment methods</u>	Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<u>14.1. UN number</u>	Not applicable.
<u>14.2. UN proper shipping name</u>	Not applicable.
<u>14.3. Transport hazard class(es)</u>	Transport Labels: No transport warning sign required.
<u>14.4. Packing group</u>	Not applicable.
<u>14.5. Environmental hazards</u>	Environmentally Hazardous Substance/Marine Pollutant: No
<u>14.6. Special precautions for user</u>	Not applicable.
<u>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u>	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

General information

This safety data sheet was compiled using current safety information supplied by distributor of raw materials.

NB: The information supplied is, to the best of knowledge, true and accurate, but recommendations or suggestions made are without guarantee since the conditions of use are beyond our control.