



PROFESSIONAL FASTENING
- SINCE 1929 -

Arrow Fastener Co., LLC
271 Mayhill Street
Saddle Brook, NJ 07663
Tel: 201.843.6900
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MSDS

1 Product Identification

Product Name: AP10-4 (Hot Melt Glue Stick)

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
ETHYLENE-VINYL ACETATE POLYMER	24937-78-8	
PETROLEUM RESIN	64742-16-1	

3 Hazards Identification

Hazards overview: Skin burns may occur from contact with molten products.

Health Hazards:

Skin Burns (from contact with molten material): signs/symptoms may include burning pain, red and swollen skin, and blisters.

See Sections 7 and 11 for further information.

4 First Aid Measures

Eye Contact:

It is impossible in normal condition. When exposed volatiles released in melting operation, immediately flush eyes with large amounts of water. Get immediate medical attention.

Skin Contact:

Do not attempt to remove adhesive. Have burn treated by a physician.

Inhalation:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

Ingestion:

It is impossible in normal condition.

5 Fire Fighting Measures

Flash point: Not applicable

Lower Explosive Limit (%): Not applicable

Upper Explosive Limit (%): Not applicable

Autoignition temperature: Not available

Suitable Extinguishing Media:

Water spray; Carbon Dioxide; Dry chemical; Foam.

Combustion Products from Fire:

Carbon monoxide and carbon dioxide; Toxic vapours, gases or particulates;



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Fire Fighting Procedures:

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, face mask, and protective covering for exposed areas of the head.

6 Accidental Release Measures

Personal Precautions:

Observe "Personal Protection" from Section 8.

Spill Response:

Collect spilled material.

7 Handling and Storage

Storage Requirements:

Store at room temperature.

Handling Requirements:

Exposure to this material in normal storage and handling has not been reported to cause significant adverse health effects. However, under normal processing conditions, e.g. grinding or heating, this product may release fumes and vapours of variable composition based on specific process conditions. These process releases may produce irritation or any of the health effects listed above when the emissions are present at elevated concentrations. Use with appropriate local exhaust ventilation.

8 Exposure Controls/Personal Protection

Occupation exposure limit:

China OEL: non-regulated.

ACGIH TLV: non-regulated.

Personal Protection

Eye Protection: Avoid eye contact with vapour. Wear unvented goggles during operations in which exposure is likely.

Hand Protection: Avoid skin contact with hot adhesive and applicator tip. Wear appropriate gloves when handling this material to prevent thermal burns.

Skin Protection: No special requirements.

Respiratory Protection: Avoid prolonged breathing of vapours.

Recommended Ventilation:

Provide appropriate local exhaust for molten or extruded material. Use in a well-ventilated area.

9. Physical and Chemical Properties

Physical State: Waxy solid in stick; white or different colour; Odourless; Molten state: resinous odour.

Odour Threshold: No data available.

pH: Not applicable

Boiling point: Decomposition.

Melting point: >80°C

Vapour pressure: Not applicable

Water Solubility: Nil

Partition coefficient (K_{o/w}): No data available.

Specific gravity: 0.95(Water=1)



Vapour density: Not applicable
Evaporation rate: Not applicable
Viscosity: Not applicable

10 Stability and Reactivity

Stability and Reactivity: Stable.
Conditions to Avoid: None known.
Incompatibilities: Not applicable.
Hazardous Decomposition: Carbon monoxide and carbon dioxide; Toxic vapours, gases or particulates;
Hazardous polymerization: Will not occur.

11 Toxicological Information

Acute toxicity: orl-rat LD50: > 2500 mg/kg (ref to the analogues)
Sensitization Information: No data available.
Carcinogenicity: No data available.
Mutagenicity: No data available.
Reproductive Effects: No data available.
Other Effects & Information:

Exposure to this material in normal storage and handling has not been reported to cause significant adverse health effects. However, laboratory studies were conducted to characterize volatiles released during Jet-melt use. Air samples were collected from the head space of the adhesive and from the simulated breathing zone of a Polygun user during application. Although acetic acid and acrolein were measured in the product's head space, the chemicals were not detected in the breathing zone air samples (i.e., chemical concentrations were below the lower limits of analytical detection). These results indicate a very low inhalation hazard when normal industrial hygiene practices are used. However, customer correspondence indicate that eye and upper respiratory system irritation may occur. For this reason, the product should be used in a well ventilated area.

12 Ecological Information

Ecotoxicity Data: No data available.
Other Effects and Information: No data available.

13 Disposal Considerations

Dispose of waste product in a sanitary landfill. For larger quantities: Incinerate in an industrial or commercial facility in the presence of a combustible material according to the local EPA.

14 Transportation Information

China(GB12268-90): non regulated
IMO : non regulated

15 Regulatory Information

China Regulation
Inventory of Existing Chemical Substance (SEPA): listed.
Inventory of Dangerous Chemicals (2002): none
Identification of Major Hazard Installations (GB18218-2000): none.



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List of High Toxic Substance (2003): none.

The National Catalogue of Hazardous Wastes (SEPA, 10998): none.

16 Other Information

The information in the Material Safety Data Sheet has been compiled from our experience and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact us to make sure that the MSDS is the latest one issued.

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