

MSDS – HOT MELT GLUE

Safety data for hot melt glues

1. **Intended use:** To be used as adhesive in various industrial applications

2. **Composition of ingredients**

Substances representing a health hazard within the meaning of the Dangerous Substances Directive 67/548 EEC

<u>Name</u>	<u>Conc. Range</u>	<u>Symbol</u>	<u>Risk phrases</u>
Vinyl acetate	<0.3%	F	R11

The above is present as an impurity

3. **Hazard identification**

Not classified under the chemicals (hazard information and packaging) regulations CHP 1994

4. **First aid measures**

General advice: Hotmelt adhesive pose virtually no hazard to health when used in a normal industrial practice, but because they are used in a molten state at high temperatures there is a risk to thermal burns. Skin contact with molten hotmelt should be avoided and precautions taken against accidental splashes of adhesive. The use of hinged guards and the insulation of hot pipes, tanks, etc minimizes the risk of burns.

Inhalation: Noxious and irritating fumes may be released from heating hotmelts. Vapour given off during operation are not considered toxic, but if overheated chemical breakdown of the components may occur, releasing a complex mixture of organic materials some of which may be toxic or irritant. Remove to fresh air, keeping patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give recovery nothing by mouth. Treat any irritation symptomatically, if unconscious place in recovery position and seek medical advice.

Skin Contact: Solid cold hotmelt is harmless to skin. Wash hands with soap and water. Skin affected by molten hotmelt should be plunged into cold water immediately and left until the burning sensation subsides. If no tap is available have a bucket of clean water available. If coated with hotmelt move fingers to prevent a tourniquet effect as it cools. Do not remove the adhesive when molten as it might remove skin to

quite a depth leaving a raw wound. Even when solid remove with care as the paraffin should be soaked into a cotton wool pad and placed over the affected area. This will slowly soften the adhesive into the pad. When hotmelt is removed treat as a normal burn. In isolated circumstances an allergic reaction may occur and direct contact with the adhesive and its vapour should be avoided.

Eye Contact: For molten hotmelt irrigate with cold water and seek medical advice immediately.

Ingestion: If accidentally swallowed obtain immediate medical attention. DO NOT induce vomiting. Give large quantities of water but never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

A solid or when heated liquid with no flash point. The product is combustible and will burn in case of a small fire but does not have unusual fire or explosion hazards. If a fire does occur, extinguish with dry agent, foam or CO₂. Water should not be allowed to come into contact with molten hot melt adhesives. Fire will produce dense black smoke and toxic gases e.g. carbon monoxide, which must not be inhaled.

6. Accidental release measures

Sweep up granules of solid material and place in a container for disposal according to local regulations (see section 13). Allow melt to cool and solidify. Scrape up and dispose of as above. Do not allow to enter drains or water courses.

7. Handling and Storage

Handling: Do not heat hotmelt glue above recommended temperatures. Avoid overheating hotmelts as this can give rise to excessive fumes indicating polymer breakdown and production of toxic or irritant vapours. The product contains some residual free vinyl acetate and on overheating acetic acid can be produced by decomposition. The requirements or regulations made under the Health and Safety at Work Act should be complied with.

Storage: Hotmelts can be stored for indefinite periods but stock rotation is advised. Store in a dry, well-ventilated place. Keep in original containers to avoid contamination with moisture and other foreign bodies. Keep containers closed.

8. Exposure controls/Personal Protection

Provide adequate extraction/ventilation of fumes and vapours released from molten hotmelt.

Exposure limits: Occupational exposure limit (OEL) in ppm given in EH40

Name	LTEL	STEL
Vinyl Acetate	10	20
Acetic Acid	10	15

Personal protection: Gloves to avoid contact with molten adhesive

Respiratory protection: No special protection necessary

Hand protection: Wear gloves to avoid contact with molten adhesive. Wash hands with soap and water after use.

Eye protection: Eye protection designed to protect against liquid splashes may be useful

Skin protection: Cotton or Cotton/Synthetic overalls may be useful to avoid skin contact

9. Physical and Chemical Properties

Physical state:	Solid thermoplastic material
Flash Point:	>250 degrees C
Specific gravity:	0.90-1.10
Solubility:	insoluble

10. Stability and Reactivity

Stable under recommended storage and handling conditions (see Section 7)

When exposed to high temperatures may produce hazardous decomposition products such as sulphur dioxide, carbon monoxide, carbon dioxide and smoke as well as vinyl acetate and acetic acid.

11. Toxicological information

There is no data available on the product itself.

12. Ecological information

This product should not be allowed to enter drains or watercourses or be deposited where it can affect ground surface waters.

13. Disposal considerations

Do not allow into drains, watercourses, or dispose of where ground or surface waters may be affected. Wastes should be disposed of in accordance with the regulations made under the Control of Pollution Act 1974 and the Environmental Protection Act 1990.

14. Transport information

Not hazardous for transport

15. Regulatory information

This product is not classified as dangerous under the Chemicals (Hazardous Information and Packaging) Regulations Act 1994.

16. Other information

The information contained in the Safety Data is based on present state of knowledge and current national legislation. It provides guidance on health, safety and environment aspects of the product and should not be construed as any guidance of technical performance or suitability for particular applications.