

TRADE GRADE PRODUCTS LTD

HOT MELT ADHESIVES – GENERAL HEALTH & SAFETY NOTES

<u>WARNING STATEMENT:</u>	No significant hazard
<u>CHEMICAL NAME/ DESCRIPTION:</u>	A blend of synthetic polymers modified with blends of synthetic and natural resins and synthetic and natural waxes and oils, anti-oxidants and stabilisers.
<u>CHEMICAL REACTIVITY:</u>	No known hazardous chemicals are formed on mixing the above components, or when formulations are used at recommended temperatures under recommended conditions.
<u>APPLICATIONS / USE:</u>	Various industrial end uses as adhesives, coatings and sealants.
<u>HEALTH HAZARDS:</u>	Hot melt adhesives pose virtually no hazards to health when used in normal industrial practice, but because they are used in a molten state at high temperatures, there is a risk of burns. Skin contact with melted product should be avoided and precautions taken against accidental splashes of adhesive. The use of hinged guards and insulated hot pipes and tanks etc, minimises the risk of burns.

Solid	Virtually odourless and harmless to skin. (However in isolated circumstances, an allergic reaction may occur. In such cases, direct contact with the adhesive or vapour from molten adhesive should be avoided.
Molten	The greatest hazard occurs when the adhesive is molten. Severe thermal burns can result if skin contact occurs. Adequate protective clothing and suitable approved hand, face and eye protection should be worn.
Vapour / fumes	Vapours given off during operation at recommended temperatures are minimal. These vapours can, in some individuals, irritate the respiratory system but are not considered harmful. However, overheating, particularly for extended periods of time, may result in chemical breakdown of the components releasing a complex mixture of organic materials,

FIRST AID

As solid	Skin	Wash hands
	Eyes	Treat as an inert particle. Irrigate with water.
	Oral	Minimal toxicity.
As melt	Skin	Affected area should be plunged into cold water immediately and left until burning sensation subsides. If there isn't a tap nearby, have a bucket of clean, cold water available. Move fingers (if coated with hot melt) to prevent a tourniquet effect as it cools. Do not remove the adhesive when molten as it can remove the skin to quite a depth, leaving a raw wound. Even when solid, remove with care as this may still occur. If difficult to remove with medical approved olive oil, liquid 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 the hot melt is removed treat as a normal burn or scald.
	Eyes	Irrigate with cold water. Seek medical attention immediately.
	Fumes - inhalation	Remove to fresh air. Treat any irritation symptomatically. Call a doctor if in doubt or if symptoms persist.

FIRE HAZARDS

Conditions to avoid	Overheating, especially by direct contact with naked flame, electrical sparks and static discharge.
Danger signs	EXCESSIVE FUMES FROM OVERHEATING THE ADHESIVE.
Recommended fire-fighting practices	If a fire does occur, a dry chemical powder or CO ² extinguisher, sand or earth should be used. Water should not be allowed to come into contact with hot molten hot melt adhesives. Water fog or foam must only be used to douse any surrounding material - not the fire itself. Although not classified as flammable, hot melts will burn in the event of a small fire. As with all organic materials, the combustion from products will include toxic gases (e.g. carbon monoxide) and therefore inhalation of the fumes must be avoided.

STORAGE PRECAUTIONS

Hot melt adhesives can be stored for indefinite periods, but we advise stock rotation. Store in a clean dry place, away from sunlight or sources of direct heat. Keep hot melt in original containers to avoid contamination with moisture and other foreign bodies. Keep containers closed.

TRANSPORT PRECAUTIONS

Not hazardous. 100 per cent solid plastic material.

HANDLING / USE PRECAUTIONS

Take due care when using molten material and hot equipment. Wear protective clothing. Do not heat adhesive above recommended temperatures - see technical data sheets on each product. Provide adequate extraction / ventilation of fumes and vapours from the molten adhesive / sealant or coating material.

SPILLAGE AND DISPOSAL PRECAUTIONS

Solid	This presents little hazard. Sweep up the slats or granules and pick up blocks. Place them in a container for disposal.
Melt	Allow to become solid; scrape up and treat as above.
Disposal	Dump in approved landfill or by controlled incineration.

The information provided in this data sheet is based on our current knowledge of the product and is intended to describe it for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.