

# Material Safety Data Sheet

THIN FILM  
BONDING WAX

Date prepared: January 2003

Date revised: December 2008

0CON-193

## 1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or preparation trade name: *Thin Film Bonding Wax*  
Unique reference number(s): *0CON-193*  
Company/undertaking name & address: *Logitech Ltd.,  
Erskine Ferry Road, Old Kilpatrick, Glasgow G60 5EU, Scotland,  
UK*  
Telephone: *(+44) 1389 875444*  
Emergency telephone number: *As above*

## 2. Composition

Substance: *In compliance with SARA Title 3 (40 CFR 372.65), all ingredients in this product are non-hazardous. Identities of these materials are with-held as a trade secret (29 CFR 1910.1200(i)).*  
CAS No.: *N/A*  
% (v/v): *100*  
PEL: *N/A*  
Ceiling: *N/A*  
STEL: *N/A*

## 3. Hazards Identification

Medical conditions: *No identified medical conditions are known to be aggravated or enhanced by exposure.*  
Listed occupational exposure levels: *The ingredients in this product do not have any known listed occupational exposure levels which apply.*  
Carcinogenic: *No ingredients in this product are listed or suspected carcinogens (National Testing Program, International Agency for Research on Cancer, or OSHA).*

## 4. First Aid Measures

Inhalation: *Heated vapours will cause nausea, dizziness and vomiting if inhaled over a prolonged period of time. Remove to fresh air.*  
Skin contact: *Heated vapours will aggravate the skin causing dermatitis. Flush repeatedly with water.*

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Eye contact: *Heated vapours can cause eye redness if in contact with the eyes over a prolonged period of time. Flush repeatedly with water should this occur.*

Ingestion: *Contact physician. Drink large amounts of water and induce vomiting.*

## 5. Fire-Fighting Measures

Suitable extinguishing media: *Not applicable - non-flammable.*

Special fire fighting procedures: *Not applicable - non-flammable.*

Unusual fire and explosive conditions: *Not applicable - non-flammable.*

## 6. Accidental Release Measures

Methods for cleaning: *Absorb with non-combustible material and dispose as non-hazardous/municipal waste.*

## 7. Handling and Storage

Handling: *Wear suitable protective clothing. Glasses or goggles and nitrile or neoprene protective gloves are required. Additional equipment may include a uniform or apron. When heated, vapours should be ventilated away from workspace.*

Storage: *Keep away from heat. Store in a cool, dry, well ventilated area or cabinet. Isolate from incompatibles such as corrosives, oxidisers, or strong reducing agents.*

## 8. Exposure Controls

Ventilation: *Ventilation is not normally required, however, heated vapours should be ventilated away from workspace.*

Respiratory protection: *Not required under conditions of normal use. No respiratory protection is required under normal handling conditions at STP. If excessive vapour is produced use a NIOSH approved respirator.*

Hand protection: *Use impervious synthetic rubber gloves.*

Skin protection: *Apron / uniform.*

Eye protection: *Wear plastic face shield or splash proof safety goggles.*

## 9. Physical and Chemical Properties

Appearance:	<i>Solid, opaque tan.</i>
Odour:	<i>None.</i>
Boiling point:	<i>&gt;300°C (&gt;570°F)</i>
Melting point:	<i>50-55°C (122-131°F)</i>
Flashpoint (°C):	<i>196°C (385°F) (closed cup)</i>
Vapour pressure (mm Hg), @ 25°C:	<i>N/A</i>
Evaporation rate (Butyl Acetate = 1):	<i>N/A</i>
Oxidising properties:	<i>N/A</i>
Percent volatile:	<i>0%</i>
Vapour density (Air-1):	<i>N/A</i>
Specific gravity (water=1):	<i>1.01</i>
Solubility (water):	<i>0 at 25°C, complete @ 80°C</i>

## 10. Stability and Reactivity

Stability:	<i>Thin Film Bonding Wax is stable, non-reactive and non-corrosive when used at temperatures expected under normal applications.</i>
Hazardous polymerisation:	<i>Will not occur.</i>
Conditions to avoid:	<i>Flame or other sources of ignition, combustion sources.</i>
Decomposition or byproducts:	<i>Oxides of carbon monoxide and carbon dioxide.</i>
Incompatibility:	<i>Strong acids, strong oxidisers, strong reducing agents.</i>

## 11. Toxicological Information

Concise description of toxicological properties follows, including any special effects of constituents:

Inhalation:	<i>This material should not represent a hazard under normal conditions.</i>
Skin contact:	<i>Heated vapours may cause redness but no toxicological danger.</i>
Eye contact:	<i>Flush eyes with large amounts of water should heated vapours come into prolonged contact with eyes. No toxicological danger.</i>
Ingestion:	<i>May result in nausea and dizziness if taken in large quantities. Call a physician and induce vomiting. No toxicological danger.</i>
Chronic effects:	<i>Contains only non-hazardous materials which are not regulated under the OSHA Hazard Communication Standard or SARA Title III.</i>

## 12. Ecological Information

Mobility: *The product is non-reactive and non-corrosive. It is stable under normal operating temperatures expected in manufacturing processes.*

## 13. Disposal Considerations

Waste management: *When emulsified Thin Film Bonding Wax is completely biodegradeable.*

Sewer discharge: *Thin Film Bonding Wax can be sent directly to the sewer upon dispersing/removal with Logitech Bonding Wax Cleaning Powder solution. Approvals should be received prior to discharge.*

## 14. Transport Information

Special carriage precautions in carriage (on-site or externally): *N/A*

Classification data: *N/A*

## 15. Regulatory Information

Supply label information: *Thin Film Bonding Wax is a non-VOC by EPA method 24. No levels of listed materials exist that would require warning (State of California, Proposition 65).*

NOTE: THIS DATA SHEET DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION.

## 16. Other Information

Recommendations/restrictions: *Do not store or transport near heat sources.*

Use: *Bonding semiconductor / photonic materials to substrates.*

Sources of key data used: *As supplied.*

Abbreviations: *N/A = Not Applicable*

The data contained in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1993, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.