

**Thin Film Bonding Wax****1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING****Product Identifiers**Product Name: **Thin Film Bonding wax**

Product code: OCON-193

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

Identified uses: Water soluble thermoplastic adhesive for mounting samples.

Uses advised against: This product is to be used only for the purpose stated above.

Details of the supplier of the safety data sheetManufacturer: Logitech Ltd
Erskine Ferry Road
Old Kilpatrick
Glasgow
G60 5EU
Scotland, UK

Telephone +44 (0) 1389 875444

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Emergency telephone number

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

This material is a mixture

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:

Not classified as hazardous

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Not classified as dangerous

Label elements**Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)**

No labelling is required under these regulations

Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

No labelling is required under these regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a mixture.

No hazardous substances are present at or above threshold limits.

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Remove from source of exposure.

Inhalation

If powder / dust is inhaled, remove material by mechanical means (blowing nose, coughing etc) Do not use solvents. If person experiences continued irritation seek medical advice.

Inhalation of fumes from hot material: Move to fresh air. If person experiences continued irritation seek medical advice.

Ingestion

Do not induce vomiting. If a substantial quantity was ingested seek medical advice

Skin contact

Wash area with soap and water then rinse thoroughly with water. If person experiences persistent irritation seek medical advice.

Eye contact

Wash out with plenty of water. After initial flushing, remove any contact lenses and continue flushing.

Seek medical advice in the event of continued irritation or other complaints.

Most important symptoms and effects, both acute and delayed

No specific effects and/or symptoms have been reported or are known.

Indication of any immediate medical attention and special treatment needed

None

5. FIRE-FIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media: Water spray, alcohol resistant foam, dry extinguishing powder, carbon dioxide

Unsuitable extinguishing media: None

Special hazards arising from the substances or mixture

Product is based on organic materials. Combustion will produce carbon dioxide, carbon monoxide and possibly irritating or toxic organic chemicals.

Advice for fire fighters

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Minimise contact with skin.

Environmental precautions

Do not allow to contaminate rivers, streams, other waterways, drains, soil or the remaining environment.

Methods and material for containment and cleaning up

Sweep or scrape the spillage into a sealable storage container.

Reference to any other sections

See section 13 for disposal information

7. HANDLING AND STORAGE**Precautions for safe handling:**

Minimise skin contact.

Avoid breathing dust.

Do not overheat the wax. Follow manufacturer's recommendations regarding suitable temperatures.

Do not breathe fumes from overheated or burning material.

Dust / air mixtures may present an explosive hazard under some circumstances.

Conditions for safe storage, including any incompatibilities

No special requirements

Specific end use(s)

None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Exposure limits:**

The UK Workplace Exposure Limit (WEL) for general (nuisance) dust applies to this material:

Inhalable dust	LTEL	10 mg/m ³ (8 hr TWA)
Respirable dust	LTEL	4 mg/m ³ (8 hr TWA)

Other exposure limits may be specified in individual countries. Check national legislation for appropriate exposure limits.

Exposure should be controlled to avoid exceeding the specified limits.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available

Exposure controls**Appropriate engineering controls**

Provide ventilation / extraction to prevent inhalation of excessive dust or fume from heated material.

Personal protective equipment

If PPE is necessary to control exposure use the following:

Respiratory protection	For dust only, use an EN149 approved respirator fitted with a particle filter (type P1, P2 or P3). For dust and fumes from hot material, use an EN149 approved respirator fitted with a combined particle and organic vapour filter (type AP). The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance
Hand protection	Wear protective gloves (all types suitable provided they are replaced before the inside becomes contaminated with the product.
Skin protection	Long sleeved clothing.
Eye protection	EN approved goggles or face shield

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemicals properties**

Appearance:	purple solid
Odour:	none
Odour threshold:	information not available
pH:	information not available
Melting point:	50 - 55 °C
Boiling point:	> 300 °C
Flash point:	196 °C (closed cup)
Evaporation rate	information not available
Flammability	information not available
Upper/lower explosive limits	information not available
Vapour pressure	information not available
Vapour density	information not available
Density	1.01 g/cm ³
Solubility in water:	Soluble in hot water.
Solubility in other	
Ingredients:	information not available
Partition coefficient	

Octanol/water:	information not available
Auto-ignition temperature	information not available
Decomposition temperature	information not available
Viscosity	information not available
Explosion properties:	information not available
Oxidising properties:	Not oxidising.

Other information

No additional data available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive to materials commonly used in the transportation, handling and storage.

Chemical stability

Stable at room temperature.

Possibility of hazardous reactions

No hazardous reactions known

Conditions to avoid

High temperatures, ignition sources

Incompatible materials

Strong oxidising agents

Hazardous decomposition products

Combustion will produce carbon dioxide, carbon monoxide and possibly irritating and toxic organic chemicals.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	no data available
Irritation	no data available
Corrosively	no data available
Sensitisation	no data available
Repeated dose toxicity	no data available
Carcinogenicity	Not classified as carcinogenic
Mutagenicity	no data available
Toxicity for reproduction	no data available

12. ECOLOGICAL INFORMATION

Toxicity

Acute toxicity for fish	no data available
Acute toxicity for crustacea	no data available
Acute toxicity for algae	no data available

Persistence and biodegradability

Data not available but expected to be fully biodegradable.

Bioaccumulative potential

Data not available.

Mobility in Soil

Data not available.

Results of PBT and vPvB assessment

No components are classified as PBT or vPvB.

Other adverse effects

Data not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Dispose of product as non-hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.

The European Waste Code will depend upon the use of the product and cannot be specified here

Packaging

Clean or contaminated packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue). Recycle such waste wherever possible.

14. TRANSPORT INFORMATION

UN number

Not a dangerous good

UN proper shipping name

Not a dangerous good

Transport hazard class(s)

Not a dangerous good

Packing group

Not a dangerous good

Environmental hazards

Not a dangerous good

Special precautions for user

None identified

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

No information available

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation

EU Directive 67/548/EEC ('Dangerous Substances Directive')

Regulation (EC) No 1907/2006 ('REACH')

Regulation (EU) No 453/2010.

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

None identified

Chemical safety assessment

A Chemical Safety Assessment has not been undertaken for this product.

16. OTHER INFORMATION

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.