

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

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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 substance

Hazards: Skin sensitivity, category 1
Respiratory sensitivity may occur when product is heated.

Label elements: GHS07

**Warning****Statements**Hazard: H317 – May cause an allergic skin reaction
H335 - May cause respiratory irritation**Precautionary:**P261 - Avoid breathing vapours
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash hands thoroughly after handling
P280 – Wear protective gloves/eye protection/protective clothing**RESPONSE PRECAUTIONARY STATEMENTS:**P302 + P352: IF ON SKIN: Wash With Plenty of Water.
P304 +P340: IF INHALED: Remove Person to fresh air.
P305 + P352 + P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do – continue rinsing.
P337 + P313: If eye irritation persists, get medical attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a substance.

Component	CAS No.	EC No.	%
Rosin, Colophony	8050-09-7	617-106-3	20 - 50%
Trade Secret Information*	N/A	N/A	N/A

*Specific chemical identity and concentrations of composition are withheld as trade secret. All remaining components are considered to be non-hazardous.

No hazardous substances are present at or above threshold limits.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Remove soiled clothing and flush with soap and water for 15 minutes.

Inhalation

Administer fresh air or oxygen.

Ingestion

Do not induce vomiting. Immediately seek medical attention urgently. Maintain an open airway.

Skin contact

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

Eye contact

Flush with water for 20 minutes and immediately seek medical attention.

Most important symptoms and effects, both acute and delayed

Skin contact: Will cause irritation. Melted product will cause burns.

Eye contact: Melted product will cause severe eye damage upon direct contact.

Inhalation: Melted product will irritate nose and throat.

Ingestion: Will cause serious gastric disturbances.

Indication of any immediate medical attention and special treatment needed

Immediately contact physician for further medical advice.

5. FIRE-FIGHTING MEASURES

Extinguishing media

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

Unsuitable extinguishing media: None

Fire and explosion hazard: None

Reactivity: 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 full protective safety equipment and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protection equipment (PPE). Avoid contact with skin & eyes. Avoid breathing dust. Do not walk through spilled material. Wear appropriate respirator when ventilation is inadequate. Provide adequate ventilation or wear self-contained breathing apparatus.

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

Small spill: Stop spill if safe to do so. Use inert absorbent material and dispose in proper chemical waste container or to approved waste treatment areas.

Large spill: Stop spill if safe to do so, Approach release from upwind. Prevent entry into sewers or natural waterways. Contain and collect with inert absorbent material and place in container for disposal according to local regulations (See Section 13). Dispose via a licensed waste disposal contractor.

Reference to any other sections

See section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling:

Minimise dust generation.

Avoid breathing dust.

Handle with care. Avoid contact.

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

Do not breathe fumes from overheated or burning material.

Conditions for safe storage, including any incompatibilities

When not in use, keep container closed. Store indoors.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Control Parameters: General ventilation to control worker exposure to airborne contaminants. Ensure that emergency eyewash stations are in the immediate vicinity of any potential exposure.

Engineering Controls: If user operations generate dust, fumes, vapour or mist, use process enclosures, local exhaust or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal Protective Controls:

Hygiene Measures: Wash hands, forearms and face thoroughly after handling product. Remove contaminated clothing and wash before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection:	Chemical resistant, impervious gloves are recommended if exposure is prolonged – Neoprene type. Personal protective clothing for the body should be selected based upon the task being performed.
Eyes:	Avoid eye contact. Protective safety eyewear goggles are recommended if to avoid exposure to liquid splashes, mists, and dusts or when working on overhead structures if direct contact is evident.
Respiratory:	When using melted product, wear an EN149 approved respirator fitted with a combined particle and organic vapour filter (type AP), or NIOSH approved dust & organic vapour respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Physical state:	Solid
Appearance:	purple, green, orange, dependent on grade
Odour:	none
Odour threshold:	information not available
pH:	information not available
Melting point:	50 - 85° C
Boiling point:	not determined
Flash point:	none
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

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

None

Incompatible materials

Strong acid, alkali, oxidising agents.

Hazardous decomposition products

Oxides of carbon and silicon.

11. TOXICOLOGICAL INFORMATION

NOTE: Primary route of entry is through skin with secondary route through inhalation.

Information on toxicological effects

Acute Toxicity: None known

Potential acute health effects:

Skin: Will cause skin sensitisation. Melted product will cause burns.
Eyes: Melted product will cause severe eye damage upon direct contact.
Respiratory: May irritate nose & throat when breathing airborne vapour when heated.
Ingestion: Will cause serious gastric disturbances.

Symptoms after contact:

Skin: Irritation, dryness, redness
Eyes: Pain, watering, burning, redness, moderate irritation when heated.
Respiratory: Irritation, asthmatic systems, dizziness when heated.
Ingestion: Stomach pain, gastric disturbances.

Chronic Health Effects: No known significant effects or critical hazards

Not known to be carcinogenic

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. Do not allow product or diluted product to enter waterways.

Other adverse effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

For small spills, contain all residues with inert absorbent material and dispose in chemical recycle container. For large spills, stop leak if safe to do so. Approach release from upwind. Dyke or dam area and vacuum all wet areas for recycle by a licensed waste disposal contractor. Avoid contact with soil, waterways, drains, and sewers unless such drains & sewers are fully compliant with the requirements of all authorities for disposal. 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.