

Material Safety Data Sheet

PLASTICISED
GENERAL BONDING
WAX

Date prepared: 12th December 1995

Date revised: 18th March 1999

0CON-199

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

Substance or preparation trade name: *Plasticised General Bonding Wax*

Unique reference number(s): *0CON-199*

Company/undertaking name & address: *Logitech Ltd.,
Erskine Ferry Road, Old Kilpatrick, Glasgow
G605EU, Scotland, UK*

Telephone: *(+44) 1389 875444*

Emergency telephone number: *As above*

2. Composition

Substance:	<i>Paraffin Wax</i>	<i>Polyisobutylene</i>
% content:	<i>>99.0%</i>	<i><1.0%</i>
CAS number:	<i>8002-74-2</i>	<i>9003-27-4</i>

3. Hazards Identification

*Avoid fumes from heated paraffin wax which may cause irritation.
Avoid skin and eye contact with paraffin wax in its solid and molten form.*

4. First Aid Measures

Inhalation: Paraffin Wax

Acute exposure: Fumes from heated paraffin wax may cause mild nose and throat irritation with nausea. Animals exposed to paraffin vapours in a concentration sufficient to cause death within 2 hours became hyperactive and developed clonic spasms and limb flexor muscle tetanic contractions which persisted until death.

Chronic exposure: A 5 year occupational exposure to high concentrations of aerosolized paraffin wax caused dyspnea and hypoxemia, progressing to lipoid pneumonia characterised pathologically by alveolitis involving large lipid-laden macrophages and interstitial fibrosis.

First aid: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

Skin contact: Paraffin Wax

Acute exposure: May cause mild irritation. Heated liquid may burn skin. Sensitization reactions have been reported.

Chronic exposure: development of foreign body skin granulomas has been reported following occupational exposure. Possibly impure paraffin wax, has been reported within the oil refining industry to act as a skin cancer promoter with a latent period of 20 years.

First aid: If contact is not with molten material, remove contaminated clothing and shoes immediately. Wash the affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approx. 15-20 mins). Obtain medical attention immediately. Burns from contact with molten material should be treated like thermal burns, Cool affected area as quickly as possible by drenching or immersing in water until material solidifies. Do not attempt to remove solidified material. Cover area with sterile, dry dressing. Get medical attention immediately.

Eye contact: Paraffin Wax

Acute exposure: Fumes may cause mild irritation. Heated wax may burn eyes.

Chronic exposure: No data available.

First aid: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (approx. 15-20 mins). Get medical attention immediately.

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Ingestion: Paraffin Wax

Acute exposure: Paraffin wax is not digested or absorbed.

Chronic exposure: No data available.

First aid: Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration.

5. Fire-Fighting Measures

Suitable extinguishing media:

Extinguish fire involving plasticised general bonding wax using dry chemical, carbon dioxide, water spray or regular foam (1990 Emergency Response Guidebook, DOT P 5800.5).

For larger fires, use water spray, fog or regular foam.

Required special protective equipment for fire-fighters:

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

6. Accidental Release Measures

Personal precautions:

Respirator: The following respirators are recommended based on information found in section 9.

The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the MIne Safety and Health Administration (NIOSH-MSHA). The following are ranked in order from minimum to maximum respiratory protection:

Any dust and mist respirator.

Any air -purifying respirator with a high efficiency particulate filter.

Any powered air-purifying respirator with a high-efficiency particulate filter.

Any Type "C" supplied air respirator operated in the pressure-demand or other positive pressure or continuous-flow mode.

Any self-contained breathing apparatus.

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Environmental precautions: ***Provide local exhaust ventilation to meet published exposure limits. Ventilation equipment must be explosion proof.***

Methods for cleaning: ***Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Do not flush spilled material into sewer. Keep unnecessary people away.***

7. Handling and Storage

Handling: ***Employee must wear appropriate protective (impervious) clothing and equipment to prevent any possibility of skin contact when this substance is in the molten form. Otherwise no protective clothing is required.***
The employee must wear appropriate protective gloves to prevent contact with this substance in molten form.

Storage: ***Store away from all incompatible substances. Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the District Director of the Environmental Protection Agency.***

8. Exposure Controls

Exposure limits: Paraffin Wax Fume ***2mg/M3 OSHA TWA***
2mg/M3 ACGIH TWA
2mg/ M3 NIOSH recommended TWA

Hand protection: ***As stated in section 7 above.***

Skin protection: ***As stated in section 7 above.***

Eye protection: ***Employee must wear splash-proof or dust-resistant safety goggles. Contact lenses should not be worn. A faceshield is also recommended to prevent contact with this substance in molten form.***

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9. Physical and Chemical Properties

Physical State:	<i>Solid, waxy pellets</i>
Colour:	<i>Colourless - White - Translucent</i>
Odour:	<i>Odourless</i>
pH:	<i>N/A</i>
Specific Gravity:	<i>0.80</i>
Boiling Range/Point (°C/F):	<i>N/A</i>
Melting Point (°C/F):	<i>47-65 / 117-149 (dependent upon grade)</i>
Flash Point (PMCC) (°C/F):	<i>210 / 410</i>
Auto-flammability (°C):	<i>245 (for 100% paraffin)</i>
Explosion Limits (%):	<i>N/A</i>
Vapour Pressure:	<i>N/A</i>
Density:	<i>N/A</i>
Solubility in Water:	<i>Insoluble</i>
Vapour Density (Air = 1):	<i>N/A</i>
Viscosity (cSt):	<i>N/A</i>

10. Stability and Reactivity

Stability:	<i>Stable under normal temperatures and pressures.</i>
Conditions to avoid:	<i>Heat - High temperatures - Pressure - Mechanical shock</i>
Materials to avoid: Paraffin Wax:	<i>Oxidizers (strong): fire and explosion hazard.</i>
Hazardous decomposition products:	<i>Thermal decomposition products may include toxic oxides of carbon. Polymerization: hazardous polymerization has not been reported to occur under normal temperatures and pressures.</i>

11. Toxicological Information

Acute toxicity:	<i>Low order of acute toxicity predicted</i>
Paraffin:	<i>A 100mg dose applied to the rabbit eye for 24 hours caused mild irritation. A 500mg dose applied to the rabbit skin for 24 hours caused mild irritation.</i>
Chronic Toxicity/Carcinogenicity:	<i>When implanted in rats (120 mg/kg) and mice (480 - 660 mg/kg), caused tumours of the bladder, lungs and thorax.</i>

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Genotoxicity: *This product is not expected to cause any mutagenic effects.*

Reproductive/Developmental Toxicity: *This product is not expected to cause reproductive or developmental health effects.*

12. Ecological Information

Mobility: *No relevant studies identified.*

Persistence/Degradability: *No relevant studies identified.*

Bio-accumulation: *No relevant studies identified.*

Ecotoxicity: *No relevant studies identified.*

13. Disposal Considerations

Likely residues/waste product (if any): *N/A*

Safe handling of any residues/waste product: *Please refer to section 7.*

14. Transport Information

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

Classification data: *N/A*

15. Regulatory Information

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.

EC Annex 1 classification: *According to EC Commission Directive 67/548/EEC this product is not classified.*

R phrases: *N/A*

S phrases: *N/A*

TSCA listing: *All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.*

EINECS listing: *All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or the European List of New Chemical Substances (ELINCS) or are exempt from listing.*

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DSL/INDSL (Canadian) listing:	All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).
MA Right to Know Law:	All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: Paraffin.
PA Right to Know Law:	This product contains the following chemicals found on the Pennsylvania Hazardous Substance List: Paraffin.
NJ Right to Know Law:	This product does not contain any chemicals on the New Jersey Workplace Hazardous Substances List.
California Proposition 65:	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
SARA Title III Sect. 302 (EHS):	This product does not contain any chemicals subject to SARA Title III Section 302.
SARA Title III Sect. 304:	This product does not contain any chemicals subject to SARA Title III Section 304.
SARA Title III Sect. 311/312 Categorisation:	Immediate (Acute) Health Hazard.
SARA Title III Sect. 313:	This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations

16. Other Information

NFPA Ratings:	NFPA code for flammability - 1 NFPA code for health - 1 NFPA code for reactivity - 0 NFPA code for special hazards - N/A
HMIS Ratings:	HMIS code for flammability - 1 HMIS code for health - 1 HMIS code for reactivity - 0 HMIS code for personal protection - see Section 8
Recommendations/restrictions:	The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
Use:	Temporary bonding of sample materials to support substrates.
Sources of key data used to compile Safety Data Sheet:	Croner's Hazard Information and Packaging, 3/95

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Abbreviations:

N/E: Not established

N/A: Not available

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.