

MATERIAL SAFETY DATA SHEET

1	PRODUCT NAME REF (MSDS 13)	LAPMASTER POLISHING PITCH
	Description	Natural oil-based dispersion of shell flour and gum resin.(Solid at room temperature).
	Supplied by:	Lapmaster International Ltd Lee Mill Industrial Estate Ivybridge Devon PL21 9EN Tel: + 44 1752 893191 Fax: + 44 1752 896355
2	Composition : Information on Ingredients Hazardous Components	CAS No. 8050-09_7 Symbol = Xi EC No. 232-475-7 Risk Phrases = R43 % = 67% Contains mixture of Ricinoleic Acid and Oleic Acid.
3	Hazards Identification: I/ Health /Physical Hazards Short Term Long Term II/ Environmental Hazards	Caution : When overheated, fumes may be formed which may induce asthmatic attacks No known effects on humans from discontinuous use and short term exposure. Prolonged or repeated skin contact may cause irritation or sensitisation in sensitive subjects Not expected to be a hazard due to it`s biodegradation.
4	First Aid Measures: Eyes: Skin: Inhalation: Ingestion:	Rinse immediately with water for several minutes. In case of irritation, wash with plenty of soap and water. Excessive inhalation of fumes when heated may cause bronchial provocation. If evident, seek medical advise. Do not induce vomiting. Rinse mouth out with water, but do not drink. Seek medical attention. Product has

	Protection for First-Aiders:	laxative properties. Avoid contamination from product spills, etc.. Wear suitable PPE (Gloves, Safety goggles,)
5	Fire-fighting Measures: Suitable extinguishing media: Unsuitable extinguishing media: Specific Hazards : Unusual fire and Explosion Hazards Hazardous Combustion Products Protection of Fire-Fighters:	Flash Point : 190°C Auto Ignition Temp : 445°C CO ₂ Dry Powder, Alcohol resistant foam. Water Jet Combustible material impregnated with this material may spontaneously ignite. Burning may release oxides of carbon and other hazardous gases including acrolein vapour Self-Contained breathing apparatus should be worn.
6	Accidental Release Measures: Personal Precautions Spillage: Waste Disposal:	Wear suitable protective clothing(Gloves, Safety Goggles) May cause slipping hazard. Prevent from entering drains, watercourses and sewers. If contaminated, advise police, fire brigade and local water authority. Collect into suitable containers, seal and correctly label for specialist disposal or recovery. Do not use combustible materials (e.g. sawdust) to soak up spillages. Use inert absorbant material. Wash the area with water and detergent, observing environmental requirements.
7	Handling and Storage: Handling: Storage:	Handle in well ventilated area. Keep away from sources of heat. Avoid oxidising agents. NO SMOKING. Combustible material and rags impregnated with the pitch may spontaneously ignite. Keep in original containers, tightly sealed and away from heat.

8	<p>Exposure Controls/Personal Protection:</p> <p>Technical Protection Measures:</p> <p>Respiratory Protection:</p> <p>Hand Protection.</p> <p>Eye Protection:</p> <p>Skin Protection:</p>	<p>Ensure work area is well ventilated or exhausted. Provide eye-wash station.</p> <p>In case of insufficient ventilation, wear suitable respiratory device such as EN143, Type P-S or EN149, Type FFP-S</p> <p>Wear rubber or plastic gloves.</p> <p>Wear safety goggles.</p> <p>Laboratory coat or overalls, non-slip boots.</p>
9	<p>Physical and Chemical Properties:</p> <p>Flashpoint:</p> <p>Auto Ignition Point:</p> <p>Appearance:</p> <p>Solubility in Water:</p> <p>Odour:</p> <p>Viscosity:</p> <p>S.G</p>	<p>229°C</p> <p>Approx. 400°C</p> <p>Brown resin, solid at room temperature</p> <p>Insoluble</p> <p>Characteristic oily odour</p> <p>Approx. 700cPs at 130° C</p> <p>1.15 g/ml at 20° C</p> <p>Note: These are typical values and do not constitute a specification.</p>
10	<p>Stability and Reactivity:</p> <p>Thermal Decomposition</p>	<p>Stable at ambient temperatures. Avoid extreme heat and oxidising agents. When overheated, fumes may be emitted which may cause asthmatic attacks when inhaled. Burning may release oxides of carbon and sulphur, acrolein, acrid smoke and irritating fumes.</p>
11	<p>Toxicological Information:</p> <p>Contains Resin component</p> <p>Test Data:</p> <p>-Oral LD₅₀ rat (mg/kg)</p> <p>Exposure Hazard:</p> <p>Inhalation</p>	<p>7600</p> <p>Excessive inhalation of dust or fumes when heating, may cause bronchial irritation. Noxious and irritating fumes may be given off if overheated. Over 400°C,</p>

	<p>Skin Contact</p> <p>Eye Contact</p> <p>Ingestion</p>	<p>vapours may give rise to products which, if not adequately ventilated, could cause asthmatic attacks.</p> <p>Short term contact may cause irritation. Prolonged or repeated contact may cause sensitisation in susceptible individuals.</p> <p>May be irritating to eyes by mechanical abrasion from the suspended particulates.</p> <p>Ingestion of 15-30gm of the constituent oil carrier may act as a purgative and induce vomiting and nausea.</p>
12	<p>Ecological Information:</p> <p>Aquatic Toxicity</p> <p>Brachydanio rerio</p> <p>Daphnia magna</p> <p>Selenastrum capricornutum</p> <p>Environmental Effects</p>	<p>Water accommodated fraction of the resin constituent was used in acute toxicity studies resulting in the following found No Observed Effects Concentrations:</p> <p>1mg/l (96 hours)</p> <p>10mg/l (46 hours)</p> <p>100mg/l (72 hours)</p> <p>Potentially Biodegradable</p>
13	<p>Disposal Considerations:</p> <p>Product:</p> <p>Packaging:</p>	<p>Dispose of as controlled waste via a licensed contractor, ensuring that all national and local authority requirements are met.</p> <p>Packaging should be disposed of as controlled waste as above, according to local authority guidelines.</p>
14	<p>Transport Information:</p> <p>:</p>	<p>Not classified as hazardous for transport unless the resin constituent is present in molten form with temperatures in excess of 100°C</p>
15	<p>Regulatory Information:</p> <p>EEC No:</p> <p>EEC Symbol:</p> <p>Contains:</p> <p>R-Phrases</p> <p>S-Phrases</p>	<p>Resin Constituent EC No.232-475-7; EC Label X_I - Irritant</p> <p>R43 – May cause sensitisation by skin contact.</p> <p>S 2 - Keep out of reach of children</p> <p>S 24 - Avoid contact with skin.</p> <p>S 37 - Wear suitable gloves</p>

16	Other Information:	
<p>This information is taken from sources believed to be accurate. Lapmaster International Ltd, however, makes no warranty as to the accuracy of the information or suitability of the recommendations as to your operations and assumes no liability to any user thereof.</p>		
<p>Date: Nov. 2002</p>		