

22314-0129

<b>SAFETY DATA SHEET</b>					SDS No: SDS-LDT-03/08 Revision No: 0 Date of issue: 19/09/08			
<b>1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY</b>								
Product name :		Double Side Marker Pen						
Name of the company :		LEADERART INDUSTRIES (M) SDN. BHD. 7, Jalan Kukoh, Tampoi, 80350 Johor Bahru, Johor, Malaysia.						
Contact address :		Tel : (07) 2364011			Fax : (07) 2361793			
<b>2. HAZARDS IDENTIFICATION</b>								
<i>Note 1: <sup>(1)</sup></i>								
Hazard classification of product <sup>(2)</sup> :		Not available						
Hazard symbols and signal words <sup>(3)</sup> :		Not available						
Risk / Safety (R/S) Phrases <sup>(4)</sup> :		Not available						
Routes of exposure :		Not available						
Symptoms of exposure :		Not available						
Effects of acute exposure :		Not available						
Effects of chronic exposure :		Not available						
Conditions aggravated by exposure :		Not available						
<b>3. COMPOSITION / INFORMATION ON INGREDIENTS</b>								
<i>Note 2: <sup>(5)</sup></i>								
Ingredient name	CAS No.	EINECS No.	Conc'n %	Hazard symbols	R / S Phrases <sup>(6)</sup>	LC50 (Species & route)	LD50 (Species & route)	Exposure limit values
Water based ink	N/A	N/A	20.0	N/A	N/A	N/A	N/A	N/A
Polyester	N/A	N/A	5.0	N/A	N/A	N/A	N/A	N/A
Polyethylene	9002-88-4	N/A	35.0	Flammable	R10 R36 R38	N/A	N/A	N/A
Polypropylene	9003-07-0	N/A	40.0	Irritant	R36 R38	N/A	N/A	N/A
<b>4. FIRST AID MEASURES</b>								
Inhalation :		Not applicable						
Ingestion :		Not applicable						
Skin contact :		If contact with molten product, treat as Thermal Burn injury. Thermal burns require immediate medical attention. Ink may cause eye irritation. Immediately flush with water continuously for at least 15 minutes. Seek medical attention as needed.						
Eye contact :		First aid is normally not required. If swallowed, obtain medical attention.						
Additional information :								
<b>5. FIRE FIGHTING MEASURES</b>								

<b>Conditions of flammability :</b> <b>Suitable extinguishing media :</b> <b>Extinguishing media to be avoided :</b> <b>Special fire fighting procedures :</b> <b>Special protective equipment for fire :</b>  <b>Unusual fire / explosion hazard :</b> <b>Hazardous combustion products :</b>	<b>Excessive heat at 200 Deg C.</b> <b>Foam, water spray of frog, dry chemical powder, carbon dioxide.</b> <b>Do not use water jets since they could help to spread the flames.</b> <b>Not required</b> <b>Respiratory &amp; eye protection.</b> <b>Treat solid that can burn. Molded parts generally burn slowly with a low smoke density &amp; flaming drips. Under certain conditions can burn with a high smoke density. Under Oxygen lean condition, Carbon monoxide &amp; irritating smoke may be produced.</b>
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal precautions :</b> <b>Environmental precautions :</b> <b>Methods for containment and cleaning up :</b> <b>Special indications :</b>	<b>Not required</b> <b>Not required</b> <b>Pick up &amp; collect in suitable container for disposal.</b> <b>Not required</b>
<b>7. HANDLING AND STORAGE</b>	
<b>Handling procedures and equipment :</b>  <b>Conditions for safe storage :</b> <b>Precautions during handling and storage :</b>	<b>Not required</b> <b>Store in a cool, dry and well ventilated place, away from direct heat or sunlight.</b> <b>Avoid freezing, sparks &amp; open flames. Do not store near strong oxidizing agents.</b>
<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
<b>Exposure limit values of product <sup>(7)</sup> :</b> <b>Personal protective equipment to be used</b> <b>Gloves / Type :</b> <b>Respiratory / Type :</b> <b>Eye / Type :</b> <b>Footwear / Type :</b> <b>Clothing / Type :</b> <b>Other / Type :</b> <b>Specific engineering controls to be used :</b> <b>Environmental exposure controls to be used :</b>	<b>Not established.</b>  <b>Not required</b> <b>Not required</b> <b>Not required</b> <b>Not required</b> <b>Not required</b> <b>Not required</b>  <b>Not required</b> <b>Not required</b>
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Physical state :</b> <b>Appearance and odour :</b> <b>Odour threshold (ppm) :</b> <b>Colour :</b> <b>pH :</b> <b>Boiling point :</b> <b>Freezing point :</b>	<b>Solid</b> <b>Solid &amp; odourless</b> <b>Not applicable</b> <b>As per product characteristic</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not applicable</b>

<b>Melting point :</b> <b>Flammability (Solid, Gas) :</b> <b>Flash point and method of determination :</b> <b>Flammable limits</b> <b>UFL / UEL :</b> <b>LFL / LEL :</b> <b>Auto ignition temperature :</b> <b>Explosion data :</b> <b>Sensitivity to mechanical impact :</b> <b>Sensitivity to static discharge :</b> <b>Vapour pressure (mmHg) :</b> <b>Specific gravity / Relative density (H<sub>2</sub>O=1) :</b> <b>Solubility(ies) :</b> <b>Coefficient of H<sub>2</sub>O / oil distribution :</b> <b>Viscosity in centistokes or SUS (at 40 deg C or 100 deg F) :</b> <b>Vapour density (Air = 1) :</b> <b>Decomposition temperature :</b> <b>Evaporation rate (Butyl Acetate = 1) :</b>	<b>&gt; 165 Deg C</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not available</b> <b>Not available</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not applicable</b> <b>Less than 1</b> <b>Insoluble</b> <b>Not applicable</b> <b>Not applicable</b> <b>Not applicable</b> <b>More 250deg C</b> <b>Not applicable</b>
<b>10. STABILITY AND REACTIVITY</b>	
<b>Chemical stability :</b> <b>Conditions of reactivity :</b> <b>Incompatible materials and conditions :</b> <b>Hazardous decomposition products :</b> <b>Hazardous polymerisation products :</b>	<b>Product is stable.</b> <b>Excessive heat at 200 Deg C.</b> <b>Strong oxidizing agent.</b> <b>Under Oxygen lean condition,Carbon monoxide &amp; irritating smoke may be produced.</b> <b>Polymerization will not occur.</b>
<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>LC50 / LD50 of product (Species and route) <sup>(a)</sup> :</b> <b>Irritancy of product :</b> <b>Sensitisation to product :</b> <b>Carcinogenicity</b> <b>Type of carcinogen :</b> <b>Organisation recognising carcinogen :</b> <b>Mutagenicity :</b> <b>Reproductive toxicity :</b> <b>Teratogenicity / Developmental toxicity :</b> <b>Toxicologically synergistic products :</b> <b>Other toxicological information :</b>	<b>Not applicable</b> <b>Ink may cause eye irritation.</b> <b>Not a skin sensitiser.</b> <b>Not carcinogenic</b> <b>Not available</b> <b>Not mutagenic</b> <b>Not available</b> <b>Not toxic</b> <b>Not available</b> <b>Refer Heading 2.</b>
<b>12. ECOLOGICAL INFORMATION</b>	
<b>Eco-toxicity :</b> <b>Persistence and degradability in environment :</b>	<b>The product is not toxic.</b> <b>The product is not biodegradable.</b>

<b>Environmental fate :</b>	<b>Floats on water. The product is not expected to bioaccumulate.</b>
<b>13. DISPOSAL CONSIDERATIONS</b>	
<b>Waste disposal method :</b>	<b>Place in an appropriate disposal facility in compliance with local regulations.</b>
<b>Handling of dangerous residues during disposal :</b>	<b>Not ordinarily required.</b>
<b>Local / National regulations relating to waste :</b>	<b>None</b>
<b>14. TRANSPORT INFORMATION</b>	
<b>Transport classification :</b>	<b>Non-hazardous for air, sea and road freight.</b>
<b>Proper shipping name :</b>	<b>Not regulated</b>
<b>Hazardous material description :</b>	<b>Not available</b>
<b>PIN / UN number :</b>	<b>Product is not included in the UN classification of dangerous substances.</b>
<b>Transport Hazard class :</b>	<b>Not available</b>
<b>Packing group :</b>	<b>None</b>
<b>Marine pollutant :</b>	<b>No</b>
<b>Other applicable information :</b>	<b>None</b>
<b>Special precautions during transport :</b>	<b>No additional remark.</b>
<b>15. REGULATORY INFORMATION</b>	
<b>Label information :</b>	<b>None</b>
<b>National regulations / local recommendations :</b>	<b>Not available</b>
<b>16. OTHER INFORMATION</b>	
<b>Full text of R phrases (Under Headings 2, 3 &amp; 15) :</b>	<b>R10 Flammable R36 Irritating to eyes R38 Irritating to skin</b>
<b>Sections revised in the SDS <sup>(9)</sup> :</b>	
<b>Other important information :</b>	<b>Not for children under 3 years.</b>

<b>FOOTNOTE</b>	
<b>(1) Note 1</b>	<b>This section needs information on the product as a whole</b>
<b>(2) Hazard classification of product</b>	<b>International / National / Regional classification</b>

(3)Hazard symbols and signal words	Hazard symbols: Graphical reproduction of the symbols in black and white or the name of the symbol e.g. flame, skull with crossbones.Signal words: Danger, Warning, Caution.... etc.
(4)R/S Phrases	Just specify the R/S phrases... The full explanation of the R/S phrases can be given under Heading 16.
(5)Note 2	The below values should be specific to the individual ingredients...and not the product as a whole.
(6)R / S Phrases	Just specify the R/S phrases... The full explanation of the R/S phrases can be given under Heading 16.
(7)Exposure limit values of product	These values are to be specified for the product as a whole.
(8)LC50 / LD50 of product (Species and route)	These values are to be specified for the product as a whole.
(9)Sections revised in the SDS	This information is needed only when the SDS is revised.