

**LEADERART INDUSTRIES (M) SDN BHD**  
**Safety Data Sheet**  
**1907/2006/EC, 1272/2008/EC**

82356-1129

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

### 1 Identification of the substance / mixture and of the company / undertaking

- **Product Identifier**
  - Trade Name: Permanent marker COL-PMT Inks (all colors)
  - Product Reference:-
- **Relevant identified uses of the substance or mixture**
  - Permanent Ink of permanent marker used for office product.
- **Detail of the supplier of the safety data sheet**
  - Manufacturer / Supplier: Leaderart Industries (M) SDN. BHD.
  - Full Address: 7, Jalan Kukoh, Tampoi, 80350 Johor Bahru, Johor, Malaysia
  - Phone number: (07) 236 4011
  - FAX: (07) 236 1793
- **Emergency contact**
  - Phone number: (07) 236 4011
  - Email: iriskam@leaderart.com.my

### 2 Hazards identification

- **Classification of Mixture**
  - Classification according to Regulation (EC) 1272/2008

Hazard Class	Hazard Category	Hazard code
Flammable liquids	2	H225
Acute toxicity	4	H302
Skin Irritation	2	H315
Eye Damage	1	H318
STOT-SE	3	H335

- **Label elements**
  - Labeling according to Regulation (EC) no. 1272/2008
    - Hazard Pictograms:



- Signal word: DANGER

- **Hazard statements:**

H-Code	H-statements
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

**LEADERART INDUSTRIES (M) SDN BHD****Safety Data Sheet****1907/2006/EC, 1272/2008/EC**

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

- Precautionary statements:**

Code	General statements
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303/P353/P361	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305/P351/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 advice/attention.
P403/P235	Store in well ventilated place. Keep cool.

- Other hazards**

- None

**3 Composition / information on ingredients**

- Chemical characterization:** Mixtures of the following substances (containing combination of color dyes and solvents).

Chemical name	REACH Reg. No.	CAS no.	EC No.	Amount (%)	Classification according to EU Regulation (EC) no. 1272/2008
Ethanol	01-2119457610-43-0546	64-17-5	200-578-6	< 50%	Flam. Liq. 2; H225
1-methoxy-2-propanol	01-2119457435-35-0039	107-98-2	203-539-1	< 50%	Flam. Liq. 3; H226 STOT-SE 3; H336
N-butanol	01-2119484630-38-0073	71-36-3	200-751-6	< 25%	Flam. Liq. 3; H226 Acute.Tox.4 (oral); H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT-SE 3; H336
Solvent yellow 34	-	492-80-8	207-762-5	< 1%	Acute.Tox.4 (oral); H302 Eye Irrit. 2; H319
Solvent yellow 82	-	85029-58-9	285-083-3	< 2%	Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Basic blue 7	-	2390-60-5	219-232-0	< 4%	Acute.Tox.4 (oral); H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315
Gum rosin	-	8050-09-7	232-475-7	< 10%	Eye Irrit. 2; H319 STOT-SE 3; H335

- Additional information:** Refer to section 16.

**LEADERART INDUSTRIES (M) SDN BHD****Safety Data Sheet****1907/2006/EC, 1272/2008/EC**

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

**4 First aid measures**

- **Description of first aid measure**
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Wash skin with soap and water. If irritation persists, obtain medical attention.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:** If symptoms persist, consult doctor.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** No further information available.

**5 Firefighting measures**

- **Suitable extinguishing agents:** CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam
- **Special hazards arising from the substance or mixture:** Highly flammable. Vapors may form explosive mixtures with air. In case of fire hazardous decomposition products may be produced, such as carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).
- **Advice for firefighters**
  - **Protective equipment:** In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapors.
- **Environmental precautions:** Do not allow to enter sewers / surface or ground water. Avoid subsoil penetration.
- **Methods and material for containment and cleaning up:** Absorb with non-combustible absorbent material (sand, diatomite, vermiculite) and place in container for disposal according to local/national regulations.
- **Reference to other sections:**
  - See section 7 for information on safe handling.
  - See section 8 for information on personal protection equipment.
  - See section 13 for disposal information

**7 Handling and storage**

- **Precautions for safe handling:**
  - **Information for safe handling:** Keep container tightly closed. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapors. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity
  - **Information of hygiene measures:** Keep away from food, drink, and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the working day. Rake off all contaminated clothing immediately. Avoid contact with skin and eyes. Do not breathe vapors of spray mist.
  - **Information about fire and explosion protection:** Combustible liquid. Keep away from sources of ignition – no smoking. Take measures to prevent the build-up of electrostatic charge. Vapors may form explosive mixtures in air. Use only in an area containing explosion proof equipment.

**LEADERART INDUSTRIES (M) SDN BHD****Safety Data Sheet****1907/2006/EC, 1272/2008/EC**

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

- **Conditions for safe storage:**

- **Requirements to be met by storerooms and receptacles:** *Keep in an area equipped with solvent resistant flooring. Store in original container.*
- **Information about storage in one common storage facility:** *Incompatible with oxidizing agents. Keep away from food, drink and animal feeding stuffs.*
- **Further information about storage conditions:** *Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat. Keep away from direct sunlight.*

**8 Exposure controls / personal protection**

- **Control parameters**

- **Ethanol (CAS no.: 64-17-5)**  
**Occupational exposure limits:**  
**PEL: 1000 ppm (TWA)**
- **1-methoxypropan-2-ol (CAS no.: 107-98-2)**  
**Occupational exposure limits:**  
**PEL: 100 ppm (TWA)**

- **Additional information about design of technical facilities:** *Use local exhaust ventilation or other engineering control to maintain the airborne levels below exposure limit requirement or guidelines in Section 7. General ventilation should be sufficient for most operations.*

- **Ingredients with limit values that require monitoring at the workplace:**

- **Personal protective equipment:**

- **General protective and hygienic measures:**  
*The usual precautionary measures are not to be adhered to when handling chemicals.*
- **Respiratory protection:** *Required if exposure limit exceeded (e.g. OEL). Respirator with a gas filter. Recommended filter type: A.*
- **Hands protection:**  
*The glove material has to be impermeable and resistant to the product / the substance / the preparation. Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture. Protective gloves should be replaced at first signs of wear. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.*
  - ❖ **Material of gloves**  
*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*
  - ❖ **Penetration time of glove material**  
*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Goggles recommended during refilling.*
- **Skin and body protection:** *Wear suitable protective clothing.*
- **Environmental protection:** *Do not let product enter drains. Of the product contaminates rivers and lakes or drains, respective authorities should be informed accordingly.*

**LEADERART INDUSTRIES (M) SDN BHD****Safety Data Sheet****1907/2006/EC, 1272/2008/EC**

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

**9 physical and chemical properties**

- **Appearance:** Colored liquid.
- **Odour:** Alcohol-like
- **Odour threshold:** Not available
- **pH:** Not available
- **Melting point / Freezing point:** -118°C
- **Initial boiling point / Boiling range:** 78°C
- **Flash Point:** Below 23°C
- **Evaporation rate:** Not available
- **Flammability:** Not available
- **Upper/Lower flammability or explosive limits:** 3.3% – 19% (by volume)
- **Vapour pressure at 20°C:** 41.4 mmHg @ 20°C
- **Vapour density:** 1.6 (air = 1.0)
- **Relative density:** 0.85 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
  - **Water :** Partly soluble in water @ 20 °C
- **Partition coefficient (n-octanol/water):** Not available
- **Auto-ignition temperature:** 363 °C
- **Decomposition temperature:** Not available
- **Viscosity:** 2.50 – 3.70 cps

**10 Stability and reactivity**

- **Reactivity:** Stable under recommended storage conditions.
- **Chemical stability:** Stable under normal conditions.
- **Possibility of hazardous reactions:** Not available
- **Thermal decomposition / conditions to be avoided:** Heat, flames and sparks.
- **Incompatible materials:** Alkali metals, alkaline earth metals, strong oxidizing agents, nitric acid, sulphuric acid, peroxides (E.g. Hydrogen peroxide)
- **Hazardous decomposition products:** Under fire conditions: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

**11 Toxicological information**

- **Information on toxicological effects**
  - **Ethanol (CAS no.: 64-17-5)**  
**LD50 rat (oral): 7,060 mg/kg**
  - **1-methoxypropan-2-ol (CAS no.: 107-98-2)**  
**LD50 rat (oral): 5,660 mg/kg**  
**LD50 rabbit (dermal): 13,000 mg/kg**

**LEADERART INDUSTRIES (M) SDN BHD****Safety Data Sheet****1907/2006/EC, 1272/2008/EC**

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

- **Symptoms related to physical, chemical and toxicological characteristic**
  - Skin corrosion/irritation:** No further relevant information available
  - Serious eye damage/irritation:** No further relevant information available
  - Respiratory or skin sensitization:** No further relevant information available
  - Germ cell mutagenicity:** No further relevant information available
  - Carcinogenicity:** No further relevant information available
  - Reproductive toxicity:** No further relevant information available
  - STOT-SE:** May cause drowsiness or dizziness
  - STOT-RE:** No further relevant information available

**12 Ecological information**

- **Ecotoxicity**  
Water hazard Class 1 (German Regulation) (Self assessment) : slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Persistence and degradability:** This material may biodegrade to a moderate extent.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** Mobile in water environment.
- **Additional ecological information**
  - **General notes:**  
Do not flush into surface water or sewage system. Avoid subsoil penetration.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable
  - **vPvB:** Not applicable
- **Other adverse effects:** Do not empty into drains.

**13 Disposal considerations**

- **Waste treatment methods**
  - **Recommendation:** Disposal together with normal water is not allowed. Special disposal required according to local regulations. Do not empty into drains. Contact waste disposal services.
- **Contaminated packaging**
  - **Recommendation:** Empty contaminated packaging and can be recycled after proper cleaning thoroughly. Packaging that cannot be cleaned is to be disposed of in the same manner as the product. Do not burn, or use cutting torch on the empty drum. Risk of explosion.

**14 Transport information**

- **UN number:** Not available
- **UN proper shipping name:** Not available
- **Transport hazard class(es):** Not available
- **Packing group:** Not applicable
- **Maritime transport IMDG:**
  - **IMDG Class:** Not available
  - **Marine pollutant:** Not available
- **Transport in bulk:** Not available
- **Special precautions:** Not available

**LEADERART INDUSTRIES (M) SDN BHD****Safety Data Sheet****1907/2006/EC, 1272/2008/EC**

Trade Name: Permanent marker COL-PMT Inks (all colors)

SDS No.: SDS-LDT-INK-0119

Revision Date: 16-May-2019

Revision No.: 0

**15 Regulatory information**

- **National regulations**
  - **All components are listed on TSCA list of active substances.**
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate List of REACH Regulation Annex XIV Authorization (15/12/2010)**
  - *None of the ingredients is listed*
- **REACH Regulation Annex XVII Restriction List** *None of the ingredients is listed*
- **REACH Regulation Annex XIV Authorization Recommendation List (17/12/2010)**
  - *None of the ingredients is listed.*

**16 Other information**

- *The contents and format of this MSDS / SDS are in according with REGULATION (EC) No. 1272/2008 & (EC) 1907/2006.*
- *For the full text of H-statement mentioned in Section 3:*

H-Code	H-statements
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

- **DISCLAIMER OF LIABILITY**  
*The information in this MSDS / SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the product. This MSDS / SDS was prepared and is to be used only for this product. If the product is used as a component is another product, this MSDS / SDS information may not be applicable.*