HI – SHINE INKS PVT. LTD.

Material Safety Data Sheet
Permanent Marker Ink

01 Identification of the substance / preparation and of the company / Undertaking

Product Name: **Permanent Marker Ink (PM-1603/S2A)**
Manufacturer / Supplier: **HI – SHINE INKS PVT. LTD.**
C – 1 / 204, G.I.D.C., ANTALIA.
BILIMORA – 396 325.

Phone: **0091 – 2634 284258, 282536**
Fax: **0091 – 2634 283093**
Emergency phone: **0091 – 98251-22225** **Mr. Jitendra Panwala**

02 Composition / Data on components

- **Chemical Characterisation:**
  Mixture of the following substances, containing non-hazardous substances and colouring agents.
- **Description:**
  Mixture of the substances listed below with non hazardous additions.

- **Dangerous Components:**

64 – 17 – 5	Ethanol	50 – 100%
107 – 98 – 2	1 – Methoxy – 2 – Propanol	10 – 25%
25054 – 06 – 2	Ketonic Resin	5 – 12%
65113 – 66 – 2	Solvent Black-46	3 – 10%
52080 – 58 – 7	Solvent Violet-8	1 – 4 %
495 – 54 – 5	Solvent Orange-3	0.1 – 1%

03 Hazards identification:

- **Hazardous description:** Highly flammable.
- **Information pertaining to particular dangerous for man and environment:**
  The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **HMIS Hazard Rating**

Health Hazard
Minimal---------- 0
Slight---------- 1
Moderate---------- 2
Serious---------- 3

Health---------- 2
Flammability---------- 3
Reactivity---------- 0

04 First aid measures

After inhalation Remove from danger zone and provide much fresh air upon continuous discomfort consult physician.

After skin contact Wash immediately with plenty of water and soap, remove contaminated clothes.

After eye contact Immediately rinse eyes with running water.

After ingestion Obtain medical advice.

05 Fire-fighting measures

Suitable extinguishing agents: CO_2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents:
Water
Water with full jet
Protective equipment: No special measures required

06 Accidental release measures

Person- related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Must not be released to sewers, drains or wells.
Measures for cleaning / collecting: Remove all possible sources of ignition & ventilate area. Absorb where possible containerises. Absorbent materials containing this product must be disposed of as special waste.

07 Handling and storage

Advice on safe handling:
Keep container tightly closed.
Keep container well ventilated place.

Advice on protection against explosions and fires.
Keep ignition sources away – Do not smoke.
Protect against electrostatic charges.

08 Exposure controls / personal protection

Personal protective Equipment:
General protective and hygienic measures.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before beaks and at the end of work.
Avoid contact with the eyes and skin.

Hygiene Measures:

Eye:	Protective goggles
Skin:	Follow precautionary measures like anti-static safety shoes, usually applied when using this type of product.
Respiratory:	Do not permit smoking whilst product is used. Keep away from children.

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09 Physical and chemical properties

General Information:

Form:	Fluid
Color:	According to product specification
Odour:	Characteristic odour of alcohol solvent.

Change in condition:

Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	78° C (172° F)
Flash Point:	13° C (55° C)
Ignition temperature:	287.0° C (549° F)
Auto ignition:	Product is not self igniting
Danger of explosion:	Product is not explosive. However, formation of only vapours mixtures are possible.
Vapour pressure at 20° C (68° F):	59.0 hPa (44 mm Hg)
Density (±0.01 g/cm3):	0.870
Miscibility with water:	Not miscible or difficult to mix
Viscosity at 20° C (± 0.5 mpas):	5.0 – 8.0

Solvent content:

Organic Solvent:	65%
Solid Content:	20%

10 Stability and reactivity

Thermal decomposition / condition to be avoided: No decomposition if used according to specifications.
Dangerous reactions: No dangerous reactions known.
Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

Acute toxicity
Primary irritant effect:

On the skin:	Irritant to skin and mucous membranes.
On the eye:	Irritating effect.
Sensitization:	No sensitizing effects known
Additional toxicological information:	The product shows the following dangers according to internally approved calculation methods for preparations. Irritant.

12 Ecological information

General notes: Water hazard class 2 (self-assessment) : hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

Product: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Disposal local regulations is binding.

14 Transport information

· *DOT regulations:*



· *Hazard class:*	*3*
· *Identification number:*	*UN1263*
· *Packing group:*	*II*
· *Proper shipping name (technical name):*	*PAINT*
· *Label*	*3*

· *Land transport ADR/RID (cross-border):*



· *ADR/RID class:*	*3 (F1) Flammable liquids*
· *Danger code (Kemler):*	*33*
· *UN-Number:*	*1263*
· *Packaging group:*	*II*
· *Description of goods:*	*1263 PAINT*

· *Maritime transport IMDG:*



· *IMDG Class:*	*3*
· *UN Number:*	*1263*
· *Label*	*3*
· *Packaging group:*	*II*
· *EMS Number:*	*F-E,S-E*
· *Marine pollutant:*	*No*
· *Propper shipping name:*	*PAINT*

· *Air transport ICAO-TI and IATA-DGR:*



· *ICAO/IATA Class:*	*3*
· *UN/ID Number:*	*1263*
· *Label*	*3*
· *Packaging group:*	*II*
· *Propper shipping name:*	*PAINT*

15 Regulatory information

- Sara
- **Section 355 (extremely hazardous substances):**
  None of the ingredient is listed.
- **Section 313 (Specific toxic chemical listing):**
  None of the ingredients is listed
- **TSCA (Toxic Substances Control Act):**
  64 – 17 – 5 Ethanol
- **Proposition 65**
- **Chemicals known to cause cancer:**
  None of the ingredients is listed
- **Chemicals known to cause reproductive toxicity for females:**
  None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
  None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**
  64 – 17 – 5 Ethanol

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- **Cancerogenity categories**
- **EPA (Environment Protection Agency)**
  None of the ingredients is listed
- **IARC (International Agency for Research on Cancer)**
  None of the ingredients is listed.
- **NTP (National Toxicology Program)**
  None of the ingredients is listed
- **TLV (Threshold Limit Value established by ACGIH)**
  64 – 17 – 5 Ethanol
- **MAK (German Maximum Workplace Concentration)**
  64 – 17 – 5 Ethanol
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  None of the ingredients is listed
- **OSHA-Ca (Occupational safety & Health Administration)**
  None of the ingredients is listed
- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· ***Hazard symbols:***



Highly flammable

· ***Risk phrases:***
Highly flammable.

· ***Safety phrases:***
Keep out of the reach of children.
Keep container in a well-ventilated place.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
If swallowed, seek medical advice immediately and show this container or label.

· ***National regulations:***

· ***Technical instructions (air):***

Class	Share in %
NK	60.0

· ***Water hazard class:*** *Water hazard class 2 (Self-assessment): hazardous for water.*

16 Other informations

This information is based on our present state of knowledge, it should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.