



Product name

Permanent Marker

2013187	CRICUT Permanent Markers 1 mm – Black (3 Pieces) + Adapter
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SECTION 1:

Product Name: Marker Pen (containing alcohol-based ink)

1.1 Product Model/Type: 2011935

1.2 Relevant Identified Uses: Writing, marking, and drawing.

1.3 Details of the Supplier:

Company: **Sino Path Enterprises Ltd.**

Unit F-G., 22/F., Kings Wing Plaza 2, 1 On Kwan Street, Shatin, Hong Kong

Tel : 852 2687 0084

Fax: 852 2687 4123

1.4 Emergency Telephone Number: 852 26870084

SECTION 2: Hazards Identification

Note: Hazards refer to the internal liquid ink mixture. Since the liquid is completely absorbed into the solid pen core, actual exposure and contact risks are substantially minimized.

2.1 Classification of the Substance or Mixture:

- *Flammable Solids:* Category 1 / 2 (As per UN 3175 criteria for solids containing flammable liquid)
- *Acute Toxicity (Dermal):* Category 5 (H313)
- *Serious Eye Irritation:* Category 2B (H320)

2.2 Label Elements:

- **Signal Word:** WARNING
- **Pictogram:** Flame (GHS02)
- **Hazard Statements:**
 - H226: Flammable liquid and vapour (contained within the absorbent core).
 - H313: May be harmful in contact with skin.
 - H320: Causes eye irritation.
- **Precautionary Statements:**
 - P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
 - P233: Keep container tightly closed (Keep pen capped when not in use).
 - 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.

2.3 Other Hazards: Under normal conditions of use (writing), the chemicals are bound within the pen's absorbent core, significantly reducing exposure hazards.



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SECTION 3: Composition / Information on Ingredients

Ingredients relate to the internal liquid ink mixture; other components are non-hazardous solids (plastic pen body and polyester fibrous core).

Chemical Name	CAS Number	Concentration (in Ink)	EC Regulation Classification
1-Methoxypropan-2-ol	107-98-2	47%	Flam. Liq. 3 (H226)
Ethanol	64-17-5	20%	Flam. Liq. 2 (H225) / (Listed as H226 in source)
Iso-Propanol	67-63-0	10%	Flam. Liq. 2 (H225) / (Listed as H226 in source)
Glycerin	56-81-5	15%	Not classified
Resin (D-Sorbitol)	50-70-4	5%	Not classified
Pigment (Red, Blue, Yellow)	Secret	3%	Acute Tox. 5 (H313), Eye Irrit. 2B (H320)

SECTION 4: First Aid Measures**4.1 Description of First Aid Measures:**

Inhalation: First aid is generally not required under normal usage. If exposed to heavy vapors from damaged pens and feeling dizzy, move victim to fresh air.

Skin Contact: Discontinue use if irritation occurs. Wash skin with soap and water.

Eye Contact: If ink comes into contact with eyes (e.g., from a damaged pen), immediately rinse eyes thoroughly with water for several minutes. Remove contact lenses if present and easy to do. Seek medical advice if irritation remains.

Ingestion: Accidental ingestion is unlikely for a marker pen. If the pen core or substantial ink is swallowed, do not induce vomiting. Rinse mouth with water and seek medical attention.

4.2 Most Important Symptoms and Effects: May cause mild eye irritation upon direct contact with ink.

4.3 Indication of Immediate Medical Attention: Treat symptomatically.

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SECTION 5: Firefighting Measures
5.1 Extinguishing Media:

Suitable: Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical powder, or water spray.

5.2 Special Hazards Arising from the Substance: Plastic casings and internal solvent-infused fibers will burn if involved in a fire. Combustion may release carbon oxides (CO, CO₂) and acrid toxic smoke.

5.3 Advice for Firefighters: Wear a self-contained breathing apparatus (SCBA) and complete protective gear.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Accidental release of liquid is highly unlikely unless pens are mechanically crushed or damaged. Eliminate all ignition sources. Avoid direct contact with broken pen cores.

6.2 Environmental Precautions: Do not discard large quantities of markers into the environment or stormwater systems.

6.3 Methods for Clean-up: Pick up markers mechanically. If pens are crushed and ink spills out, absorb with an inert material (such as sand, earth, or paper towels) and place into a suitable waste container.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling: Keep away from heat, sparks, open flame, and hot surfaces. Do not dismantle or puncture the pen casing. Always replace the pen cap securely after use to prevent drying and vapor release.

7.2 Conditions for Safe Storage: Store in a cool, dry, and well-ventilated area. Avoid storing near strong oxidizing agents, open flames, or direct sunlight.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters: Under normal writing conditions, exposure limits for individual airborne solvents are not exceeded.

8.2 Exposure Controls:

Engineering Controls: General room ventilation is typically sufficient for normal commercial or industrial use.

Personal Protective Equipment (PPE):

- *Eye/Face Protection:* Not required under normal conditions of use.

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- *Skin Protection:* Not required for ordinary writing. Wear gloves if handling large quantities of - damaged or leaking pens.
- *Respiratory Protection:* None required under standard usage.

SECTION 9: Physical and Chemical Properties

Appearance: Solid article (Plastic marker pen containing an ink-infused fibrous core).

Color: Various (Red, Blue, or Yellow depending on the specific pen).

Odor: Mild, characteristic alcohol-solvent aroma.

pH: Not applicable (Solid article).

Boiling Point (of internal liquid): Approx. 78°C – 120°C

Flash Point (of internal liquid): ~24°C – 35°C (Closed cup)

Flammability (Solid): The product contains a flammable liquid absorbed in a solid matrix but will not release free fluid.

Solubility (of internal liquid): Ink components are partially miscible to miscible in water.

SECTION 10: Stability and Reactivity

10.1 Reactivity: Non-reactive under standard storage and usage conditions.

10.2 Chemical Stability: Chemically stable under normal temperature and handling environments.

10.3 Possibility of Hazardous Reactions: None under normal processing. Will not undergo hazardous polymerization.

10.4 Conditions to Avoid: Avoid open flames, high heat, sparks, and temperatures exceeding storage recommendations.

10.5 Incompatible Materials: Strong oxidizing agents, strong acids.

SECTION 11: Toxicological Information

- **11.1 Information on Toxicological Effects:**

Acute Toxicity: Marker pen as an article poses negligible acute toxicity risk. Internal pigment hazards (H313) are isolated within the fiber core.

Skin Corrosion/Irritation: No irritation expected under normal handling. Direct skin contact with the ink tip may cause minor temporary staining or mild dryness.

Serious Eye Damage/Irritation: Direct contact of the internal liquid ink with eyes causes irritation (H320).

Carcinogenicity / Mutagenicity: Components are not classified as carcinogens by IARC, NTP, or OSHA.



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SECTION 12: Ecological Information

12.1 Ecotoxicity: Standard marker pens do not pose an ecological hazard when disposed of properly.

12.2 Persistence and Degradability: Plastic components are durable and not readily biodegradable; internal solvents are biodegradable.

12.3 Bioaccumulative Potential: Low potential.

12.4 Mobility in Soil: Not applicable for solid articles.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods: Do not incinerate in open fires. Dispose of spent markers and packaging in accordance with local, state, and national environmental waste disposal regulations.

SECTION 14: Transport Information

14.1 UN Number: UN 3175

14.2 UN Proper Shipping Name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (contains 1-Methoxypropan-2-ol, Ethanol)

14.3 Transport Hazard Class: 4.1 (Flammable Solid)

14.4 Packing Group: II

14.5 Environmental Hazards: Marine Pollutant: No.

14.6 Special Precautions for User / Exemption Note:

- **Special Provision 216 (IMDG Code) / Special Provision A46 (IATA DGR):** Sealed packets and articles containing less than 10 ml of a packing group II or III flammable liquid absorbed into a solid material are **NOT subject to the requirements of these Regulations**, provided there is no free liquid in the packet or article at the time the commodity is offered for transport.
- *Hence, if the marker pen contains no free-flowing/free liquid, it can be transported as **Non-Dangerous Goods (Ordinary Goods)**.*



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SECTION 15: Regulatory Information

- **15.1 Safety, Health, and Environmental Regulations:**
 - *REACH / CLP*: Formulated in reference to EC Regulation 1272/2008 and complies with article exemptions where applicable.
 - *TSCA Inventory Status*: All component chemicals are listed or exempted on the US TSCA Inventory.
 - *TRA (Toxicological Risk Assessment)*: This product can be evaluated as a safe consumer/office article under standard global directives (e.g., LHAMA ASTM D-4236 or EN71) when in finished pen format.

SECTION 16: Other Information

- **Full Text of H-Statements referred to under Sections 2 and 3:**
 - H226: Flammable liquid and vapour.
 - H313: May be harmful in contact with skin.
 - H320: Causes eye irritation.
- **Training Advice**: No special training required for handling finished marker pens.
- **Document Revision Date**: June 9, 2026 (Updated for Marker Pen / UN 3175 formatting).