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FA12790-813

# Material Safety Data Sheet

Issuing Date No data available

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **COPIC INK**  
 UN-No UN1210  
 Recommended Use Markers Pens

### Supplier Address

Too Marker Products Inc.  
 20-8, EBISU 1-CHOME,  
 SHIBUYA-KU  
 TOKYO 150-0013,  
 JAPAN  
 TEL: (+81) 3-3440-1536

Emergency Telephone Number (+81) 3-3440-6141

## 2. HAZARDS IDENTIFICATION

### WARNING!

### Emergency Overview

**FLAMMABLE LIQUID AND VAPOR**  
 Harmful if swallowed, inhaled, or absorbed through skin  
 May cause skin, eye, and respiratory tract irritation  
 May cause central nervous system depression  
 May cause adverse effects on the bone marrow and blood-forming system  
 May cause adverse liver effects  
 Contains a known or suspected reproductive toxin

Appearance Translucent

Physical State Liquid.

Odor Alcohol

### Potential Health Effects

#### Principle Routes of Exposure

Skin contact. Eye contact.

#### Acute Toxicity

Eyes

Skin

Inhalation

Ingestion

May cause irritation.

Harmful if absorbed through skin. May cause irritation.

Harmful by inhalation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

#### Chronic Effects

Avoid repeated exposure. Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

#### Aggravated Medical Conditions

Central nervous system. Gastrointestinal tract. Pre-existing eye disorders. Blood disorders. Liver disorders. Overexposure may cause female and male reproductive disorder(s). Skin disorders. Respiratory disorders. Reproductive toxicity.

**Interactions with Other Chemicals** Use of alcoholic beverages may enhance toxic effects.

**Environmental Hazard** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	62-82
Rosin, maleated, polymer with Pentaerythritol	68333-69-7	5-12
Propanol	71-23-8	7.5-9
Isopropyl alcohol	67-63-0	3.5-4.5
Ink	RR-00341-8	<3
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	9036-19-5	1.0-3.3

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.
<b>Ingestion</b>	Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person.
<b>Notes to Physician</b>	Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
<b>Flash Point</b>	55.4°F / 13°C
<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane Do not use straight streams.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Specific Hazards Arising from the Chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	Health Hazard 2	Flammability 4	Stability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 2*	Flammability 4	Physical Hazard 0	Personal Protection B

\*Indicates a chronic health hazard.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
<b>Environmental Precautions</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for Containment</b>	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material.
<b>Other Information</b>	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only in area provided with appropriate exhaust ventilation.
<b>Storage</b>	Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propanol 71-23-8	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 500 mg/m <sup>3</sup> TWA: 200 ppm STEL: 250 ppm STEL: 625 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	STEL = 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 1225 mg/m <sup>3</sup> (vacated) STEL: 500 ppm	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment**  
**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Protective gloves. Lightweight protective clothing.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Translucent.	<b>Odor</b>	Alcohol.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid
<b>pH</b>	No information available	<b>Autoignition Temperature</b>	No information available
<b>Flash Point</b>	55.4°F / 13°C	<b>Boiling Point/Range</b>	(based on Ethanol): 78.3°C
<b>Decomposition Temperature</b>	No information available	<b>Explosion Limits</b>	No information available
<b>Melting Point/Range</b>	No information available	<b>Solubility</b>	No information available
<b>Flammability Limits in Air</b>	No information available	<b>Vapor Pressure</b>	No data available
<b>Specific Gravity</b>	No data available	<b>VOC Content(%)</b>	84.483
<b>Evaporation Rate</b>	No information available		
<b>Vapor Density</b>	No data available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Strong oxidizing agents. Acids. Chlorinated compounds.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Product Information</b>	Harmful if swallowed, inhaled, or absorbed through skin.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7060 mg/kg ( Rat )		
Propanol	1870 mg/kg ( Rat )		13548 ppm ( Rat ) 4 h
Isopropyl alcohol	4396 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h
Poly(oxy-1,2-ethanediyl), .alpha.- [(1,1,3,3-tetramethylbutyl)phenyl]- .omega.-hydroxy-	4190 mg/kg ( Rat )		

### Chronic Toxicity

<b>Chronic Toxicity</b>	Avoid repeated exposure. Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.
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<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X
Isopropyl alcohol		Group 3		X

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

<b>Target Organ Effects</b>	Blood. Central nervous system (CNS). Eyes. Gastrointestinal tract (GI). Liver. Reproductive system. Respiratory system. Skin.
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanol		LC50: 12.0-16.0 ml/L Oncorhynchus mykiss 96 h static LC50: >100 mg/L Pimephales promelas 96 h static LC50: 13400-15100 mg/L Pimephales promelas 96 h flow-through	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: 9268 - 14221 mg/L Daphnia magna 48 h EC50: 10800 mg/L Daphnia magna 24 h EC50: 2 mg/L Daphnia magna 48 h Static
Propanol		LC50: 4480 mg/L Pimephales promelas 96 h flow-through	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	EC50: 3642 mg/L Daphnia magna 48 h EC50: 3339 - 3977 mg/L Daphnia magna 48 h Static
Isopropyl alcohol	EC50: >1000 mg/L Desmodesmus subspicatus 96 h EC50: >1000 mg/L Desmodesmus subspicatus 72 h	LC50: 9640 mg/L Pimephales promelas 96 h flow-through LC50: 11130 mg/L Pimephales promelas 96 h static LC50: >1400000 µg/L Lepomis macrochirus 96 h		EC50: 13299 mg/L Daphnia magna 48 h

Chemical Name	Log Pow
Ethanol	-0.32
Propanol	0.34
Isopropyl alcohol	0.05

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Do not re-use empty containers.

**US EPA Waste Number** D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Ethanol	Toxic Ignitable
Propanol	Toxic Ignitable
Isopropyl alcohol	Toxic Ignitable
Ink	Toxic

## 14. TRANSPORT INFORMATION

### DOT

<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>Description</b>	UN1210, Printing ink, 3, PG II

<b>14. TRANSPORT INFORMATION</b>
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**TDG**

<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>Description</b>	UN1210, PRINTING INK, 3, PG II

**MEX**

<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>Description</b>	UN1210, Printing ink, 3, II

**ICAO**

<b>UN-No</b>	UN1210
<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1210, Printing ink, 3, PG II

**IATA**

<b>UN-No</b>	UN1210
<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>ERG Code</b>	3L
<b>Description</b>	UN1210, Printing ink, 3, PG II

**IMDG/IMO**

<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>EmS No.</b>	F-E, S-D
<b>Description</b>	UN1210, Printing ink, 3, PG II, FP 13C

**RID**

<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>Classification Code</b>	F1
<b>Description</b>	UN1210, Printing ink, 3, II
<b>ADR/RID-Labels</b>	3

**ADR**

<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>Classification Code</b>	F1
<b>Description</b>	UN1210, Printing ink, 3, II

**ADN**

<b>Proper Shipping Name</b>	Printing ink
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**14. TRANSPORT INFORMATION**

<b>Hazard Class</b>	3
<b>UN-No</b>	UN1210
<b>Packing Group</b>	II
<b>Classification Code</b>	F1
<b>Special Provisions</b>	163, 640C
<b>Description</b>	UN1210, Printing ink, 3, II
<b>Hazard Labels</b>	3
<b>Limited Quantity</b>	LQ6
<b>Ventilation</b>	VE01

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Not determined
<b>DSL</b>	Not determined
<b>EINECS</b>	Not determined
<b>ENCS</b>	Not determined
<b>IECSC</b>	Not determined
<b>KECL</b>	Not determined
<b>PICCS</b>	Not determined
<b>AICS</b>	Not determined

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals: Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	CAS-No	California Prop. 65
Ethanol	64-17-5	Developmental

**U.S. State Right-to-Know Regulations**



Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethanol	X				X
Propanol	X	X	X		X
Isopropyl alcohol	X				

**International Regulations**

Mexico - Grade Severe risk, Grade 4

Chemical Name	Carcinogen Status	Exposure Limits
Propanol		Mexico: TWA= 200 ppm Mexico: TWA= 500 mg/m <sup>3</sup> Mexico: STEL= 250 ppm Mexico: STEL= 625 mg/m <sup>3</sup>
Isopropyl alcohol		Mexico: TWA= 400 ppm Mexico: TWA= 980 mg/m <sup>3</sup> Mexico: STEL= 1225 mg/m <sup>3</sup> Mexico: STEL= 500 ppm

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

B2 Flammable liquid  
D2A Very toxic materials



Chemical Name	NPRI
Isopropyl alcohol	X

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Revision Date**

**Revision Note** Initial Release.

**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet