

2006 03/28 TUE 15:10 FAX →→→ IMAGINATION INTL

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Material Safety Data Sheet

Too Marker Products Inc.
 Ebisu Subaru Bldg. 4F., 20-8, Ebisu 1-chome, Shibuya-ku, Tokyo, Japan
 (Phone)03-3440-6141 (Fax)03-3440-6151
 March 28, 2006
 Contact: Toshihiko Yokoyama

Product Name: Copic Aircan (HFC-134a, Chlorofluorocarbon<CFC>-134a)

Identification of substance:	Category of product	Mono substance
	Name of chemical(s)	Tetrafluoromethane
	Molecular count(weight)	102.03
	Content	more than 99.5%
	Chemical formula	CH ₂ FCF ₃
	CAS No.	811-97-2
	TSCA No.	811-97-2
	EINECS No.	212-377-0
	UN Classification No.	Class 2
	UN No.	1078

This artist drawing and marker ink is a professional artist's product that is not intended for use by children. Keep out of the reach of children.

Physical and Chemical Characteristics

Classification:	Non-flammable liquid
Boiling Point:	-26.18 degrees C (-15 degrees F)
Vapor Pressure:	0.666Mpa (97 PSI) at 25 degrees C (77 degrees F)
Vapor Density:	3.52
Solubility in Water:	Moderate
Melting Point:	-101 degrees C (-150 degrees F)
Evaporation Rate:	Rapid
Appearance:	Transparent liquid gas

Classification by hazard

Designation of classification: High pressure gas

Non-flammable liquid gas

Hazardousness: The product is unerosive and non-flammable liquid gas in normal condition. There is a possibility that in the case where this product is dispensed into the air as liquid, if the product directly sticks on the skin, frostbite takes place on the skin. Because the product's evaporation accompanies taking its surrounding atmosphere of latent heat. In addition, when the product evaporates, it swells. For this reason, in the case of using the product within a closed room, take enough ventilation of the room because the swelling of the product reduce oxygen concentration in the room which may eventually suffocates a person in the room.

Toxicity: Toxicity of this product through inhalation in very slight. In the normal use of it, suffocation, anesthesia, liver dysfunction, etc., rarely take place. Inhalation of high concentration of the gas causes a symptom which looks like general anesthesia. Further exposure to the product may cause a person a nausea, an ecstatic feeling (the weakening of thinking faculty), motor nerves' disorder for physically-joint movement, unconsciousness, etc., all of which are generally anesthetic and caused by the temporal functional weakening of nerve system. And the exposure to the product of high concentration also may invite disorderly heart beating and the suspension of heart beating.

2006 03/28 TUE 15:10 FAX --- IMAGINATION INTL

002/004

Environmental effect: The product reacts with hydroxyle group and ends up resolving into carbon dioxide and water. Concerning about the effect of this product on ozone layers and global warming (greenhouse effect), please refer to the paragraph related to "Information on environment effect."

Fire extinguishing media: Since this product is inflammable, choose and use appropriate extinguishing agent around the fire having just occurred.

Special Fire Fighting Procedure: This product is inflammable and usually does not catch fire. In case of fire in the surrounding area of the product, transfer the container immediately including the product to safer place. If it is impossible to transfer the container, sprinkle water to the container as well as the area surrounding the container in order to cool the container, and prevent the fire from spreading. Be careful not to inhale toxic gas created by biodegradation caused by the fire.

Information of Hazardousness

Ignition point: None

Flash point: No data available

Explosive limit: None

Stability/Reactivity: If the product is stable and dissolved 0.1% of the product through heating at the temperature of 897 degrees C (1,647 degrees F) and 46% at the temperature of 1,137 degrees C (2,079 degrees F).

Erosiveness: Aluminium alloy has no toxic effect as long as the magnesium content of the alloy is low.

Information of toxicity

Sensitivity: Cardiac sensitivity to adrenalin
dog NOEL 50,000ppm

Acute toxicity: Inhalation rat LC50 4 hours >500,000ppm
rat ALC 4 hours >467,000ppm

Chronical toxicity: Inhalation rat 2 years NOEL 10,000ppm

Carcinogenicity: Inhalation rat 2 years NOEL 10,000ppm

Mutagenicity: Ames test negative

Genotoxicity: rabbit 40,000ppm, None

Health Hazard Data

First Aid:

Eye contact: Flush with fresh running water immediately for more than 15 minutes, and soon after that, take a medical treatment.

Skin Contact: If the product sticks on the skin in gaseous form, it gives the skin no damage. However, if the product in gaseous form touches the moisture on the skin, the skin may take on frostbite. Because of this, divest the person immediately who touches the product of his clothes, shoes and socks. Flush enough with a large amount of water the skin part stuck with the product. If there remains irritation on the skin, take a medical treatment immediately.

Inhaled: If a person inhales high concentration of this product, carry him to the place immediately where he can take fresh air in, keep him warm and quiet by the use of blanket, etc., and soon after that, take him to a doctor for medical check. In the case of a breath suspension or the weakening of breathing power, secure enough breathing by means of loosening his clothes, and after that, provide an artificial respiration, or according to circumstances, provide oxygen inhalation, and immediately after that, take him to a doctor for medical treatment.

Swallowed: Since the product takes faseous form under ordinally temperature and pressure, it is unthinkable that a person drinks the product in the normal use of it.

2006 03/28 TUE 15:10 FAX →→→ IMAGINATION INTL

003/004

**Precaution for Safe Handling and Use
In Case of Spill:**

If it is possible to perform measures against leakage without accompanying danger, tighten the valve of container, or cover the leaking part of container to stop leakage. If the leakage of product from its container does not stop, transfer the container to an open space with no danger and dispense the product there.

If a large amount of product leaks, evacuate people from the surrounding place of the product, ban the people from entering the place by means of tightening a rope around the neighboring area of leakage taking place, etc. If necessary, wear inhalation equipment.

Waste Disposal Method

Dispose in accordance with State and Federal regulations for High Pressure Gas.

Precaution of transportation

Dispose in accordance with State and Federal regulations for High Pressure Gas. When this product is transported by vehicles, etc., it is desirable to issue warning paper on transportation to the transporter. Upon confirmation that there is no leakage of product from the can and the damage of car, loads the product so that it is not effected by shock, tumbling down, falling or other damages, never fail to take preventive measures against the collapse of the loaded product, and shut the direct sunlight from the product during transporting. When filling up the product to tanker, etc., and unloading the product, make the tanker stop at flat place, apply a brake as well as a car stoppage, and then perform filling up and unloading practice.

**Control Measures
Handling and Storage:**

Handling: Handle the product in accordance with the high pressure gas control law. Wear appropriate protective gears and handle the product from windward as far as possible so as not to inhale the product or to have the product splashed in the eye and stuck on the skin and cloth.

Try to keep working environment under less than allowable concentration of the product by means of controlling the emission of product in gaseous form (refer to "Exposure prevention measure" paragraph and adequate ventilation.

Open and shut the valve of a filling can quietly.

When heating the filling can, use warmed wet cloth or warmed water of less than 40 degrees C (104 degrees F). Never heat the can directly by the use of heater. Never forget to tighten the valve of a wasted can with leaving some pressure in the wasted can in order to prevent air and moisture from entering the can.

Storage: Store in accordance with State and Federal regulation.

Keep the filling can away from the direct sunlight and store in the place with low temperature and good ventilation.

Store the filling can in dry place and prevent it from erosion caused by moisture and water droplets, etc. Always keep the filling can under the temperature of less than 40 degrees C (104 degrees F).

Provide the container of product the measure to prevent valve's damage by the shock caused by turning upside down of the container and so on. Keep the product away from spark, heat, flame, etc.

**Exposure prevention measure
Control concentration:
Measure by facilities:**

Not stipulated

When the product is used at an indoor workshop, seal up the generating source of product, or install local ventilation equipment.

In the near places where the product is handled, install safety shower, toilet, eye-washing equipmet, etc., and at the same time, put up signs indicating clearly the places where those facilities are installed.

Protective gears:

Wear inhalation protection gears, protection glasses, protection gloves, protection suits, etc., as required.

4008 03/28 10E 15:11 FAA *** IMAGINATION INFL

4008/008

Information of environmental effect

Solubility:	According to the solubility test based on the 301D Closed Bottle Law of guideline of OECD chemical products test, no biogenerativity was recognized.
Accumlativity:	According to the coefficiency to distribution(octanol/water) POW measurement based on the 107 Guideline of OECD chemical products test, no accumulativity was recognized at 1.06.
Toxicity fish:	No data available
Coefficient to global warming:	0.25(However, comparative evaluation on the basis that CFC-11 equals 1.0)

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Material Safety Data Sheet

Too Marker Products Inc.
 Ebisu Subaru Bldg. 4F., 20-8, Ebisu 1-chome, Shibuya-ku, Tokyo, Japan
 (Phone)03-3440-6141 (Fax)03-3440-6151
 July 21, 2000
 Contact: Toshiniko Yokoyama

Product Name:	Copic - Copic Sketch - Various Ink	
Hazardous Component:	Ethanol	77.4(Wt%)
	Isopropanol	4.4(Wt%)
	n-Propanol	8.7(Wt%)
	Ester of Maleic Resin	7.0(Wt%)
	Octylphenoxy polyethoxy ethanol Nonionic Surfactant	1.3(Wt%)
	Ionol CP	0.6(Wt%)
	dyes	0.6(Wt%)
	Total:	100.0(Wt%)

This artist drawing and marker ink is a professional artist's product that is not intended for use by children. Keep out of the reach of children. Flammable. Eye Irritant. Avoid inhalation. Vapor may be harmful.

Physical and Chemical Characteristics

Classification:	Inflammable liquid
Boiling Point:	Not known
Vapor Pressure:	Not known
Vapor Density:	Not known
Solubility in Water:	Moderate
Specific Gravity:	0.79
Melting Point:	Not Applicable
Evaporation Rate:	Rapid
Odor:	Alcohol-Like
Appearance:	Various COPIC Colors - Liquid Inks

Fire and Explosion Hazard Data

Flash Point:	60°F(15.5°C)
Lower Flammable Limit:	Not known
Upper Flammable Limit:	Not known
Fire extinguishing media:	Powder, carbonic acid gas, or alcohol.
Special Fire Fighting Procedure:	Use powder, carbonic acid gas, or alcohol. can be used for initial stage. Report to the appropriate authorities to seek for assistance. Prohibit unauthorized persons to enter the area the fire broke out. If the fire started out from the peripheral area, sprinkle water on surrounding facilities to cool off. If the container is movable, transfer it to a safe place promptly.

Unusual Fire & Explosion Hazards: None

Reactivity Data

Stability:	Stable: Yes
Conditions to Avoid:	Avoid storage in areas of excessive heat.
Incompatibility (Avoid):	None Known
Hazardous Decomposition:	No
Hazardous Polymerization:	No
Conditions to Avoid:	None Known

Health Hazard Data

Physical Hazards: Due to the nature of inflammable liquid, it is prone to form explosive compound with oxygen.

02/01/2006 12:32 FAX 541 684 0140

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003

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IMAGINATION INTL 002

Health Hazards:

When absorbs steam, it functions as an anesthetic, and causes such symptoms as mucous membrane irritation, dizziness, numbness, and headache after repeated exposure.

The user should judge both the accuracy and the suitability of this information for any intention or purpose. No other warranty is given.

First Aid:

Eye Contact: Flush the eye with fresh water for at least 15 minutes.

Seek ophthalmologist assistance immediately.

Skin Contact: Removed the contaminated clothes immediately. Wash the affected area with large quantities of water and soap.

Inhaled: Transport the victim in fresh air, keep the victim repose and warm, and seek medical help immediately. If the victim is not breathing give mouth-to-mouth resuscitation, in case of difficult breathing administer oxygen inhalations.

Swallowed: Give a plenty of water or salt water, put fingers down the throat to induce vomit, and seek medical help immediately. Do not give an unconscious victim anything orally.

Precaution for Safe Handling and Use**In Case of Spill:**

Due to the osmotic and volatile nature, remove any possible sources of ignition immediately. For small amount, use suitable absorbent such as sand, sawdust, wess and exercise caution in collection, or immediately flush it out by large quantities of water.

For large amount, block the flow by materials such as sand; lead it to a safe place to collect it into seal container as much as possible.

Flush out the remaining portion of the spill by large quantities of water. In this case, need to make sure that the concentrated liquid would not be flown out into nearby rivers and other water bodies.

Dispose in accordance with State and Federal regulations for flammable liquid.

Waste Disposal Method**Precaution**

Use with adequate ventilation. Avoid exposure to fire and flame.

Other Precautions

None Known.

Control Measures**Respiratory Protection:**

Not usually required but NIOSH approved respirator may be used.

Local Exhaust:

Yes

Special Local Exhaust:

Not usually required except in spray applications.

Mechanical Exhaust:

Local or room exhaust suggested.

Other Mech. Exhaust:

Not specifically suggested.

Protective Gloves:

Yes to avoid skin contact.

Eye Protection:

Chemical goggles or face shield to avoid splash.

Other Protective Clothing or Equipment:

Artist's impervious apron, rubber gloves, safety shoes, gas mask (application dependent)

Work/Hygienic Practices:

Keep markers and ink containers closed when not in use.

Use standard Artist's precautions. Do not spray or airbrush without adequate ventilation. Avoid inhalation of mist or spray.

Handling and Storage:

Handling: Do not place it close by or pour it over open flame or sources of ignition to evaporate the liquid unnecessarily. Do not heat the liquid. Always keep the handling site tidy, and do not leave any inflammable or oxygenic materials.

Storage: Store in accordance with State and Federal regulation, where well-ventilated to avoid steam build-ups. Keep away from any sources of ignition or other dangerous locations; watch the temperature and humidity, and store it in a cool, dry area out of direct sunlight. It is strictly prohibited to store with the hazardous materials under the State and Federal regulation.