22115-1003

# SAFETY DATA SHEET

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Date of issue: 14/04/2023 Revision Number: 2

#### **SECTION 1: IDENTIFICATION**

1.1 GHS Product identifier

Product Name Copic AIR CAN D60N

1.2 Recommended use of the chemical and

restrictions on use

Recommended use Air brush

Restrictions on use Any uses other than recommended use

1.3 Supplier's details

Manufacturer Too Marker Products Inc.

1-4-4 Higashiyama, Meguro-ku. Tokyo, Japan

Telephone +81-3-6412-8600

E-mail address main-info@toomarker.co.jp

**1.4** Emergency telephone number +81-3-6412-8600 (Available Monday to Friday between

09:00 - 17:30 Japan time)

### **SECTION 2: HAZARD(S) IDENTIFICATION**

2.1 Classification of the substance or mixture

Physicochemical hazard Gases under pressure, Liquefied gas (Simple Asphyxiant)

2.2 GHS label elements, including precautionary statements

**Hazard pictogram** 

Prevention

Storage



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.
Use personal protective equipment as required.
Protect from sunlight. Store in a well-ventilated place.

2.3 Hazards Not Otherwise Classified (HNOC): Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP,

IARC, or OSHA.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

a	diffees						
	Chemical name	CAS No.	Concentration				
	trans-1,3,3,3-Tetrafluoroprop-1-ene	29118-24-9	100.00 %				

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#### **SECTION 4: FIRST-AID MEASURES**

**Skin Contact** 

4.1 Description of necessary first-aid measures

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Use oxygen as required, provided a qualified

operator is present. Call a physician.

Rapid evaporation of the liquid may cause frostbite. If there is evidence of frostbite, bathe (do not rub) with lukewarm (not hot)

water. If water is not available, cover with a clean, soft cloth or similar

covering. Call a physician if irritation develops or persists.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. In case of frostbite water should be lukewarm, not

hot. If symptoms persist, call a physician.

Ingestion Unlikely route of exposure. As this product is a gas, refer to the

inhalation section. Do not induce vomiting without medical advice.

Call a physician immediately.

4.2 Indication of immediate medical attention

and special treatment needed, if necessary

Treat frost-bitten areas as needed.

### **SECTION 5: FIRE-FIGHTING MEASURES**

5.1 Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Water mist Dry powder

Foam

Carbon dioxide (CO2)

5.2 Specific hazards arising from Contents under press

Specific hazards arising from Contents under pressure.
the chemical Heating will cause pressure

Heating will cause pressure rise with risk of bursting Cool closed containers exposed to fire with water spray.

Product is not combustible under normal conditions.

However, this material can ignite when mixed with air under pressure and

exposed to strong ignition sources.

Do not allow run-off from fire fighting to enter drains or water courses.

Vapours are heavier than air and can cause suffocation by reducing

oxygen available for breathing.

Some risk may be expected of corrosive and toxic decomposition

products.

Fire may cause evolution of:

Hydrogen fluoride Carbon oxides

Carbonyl halides Halogenated compounds

5.3 **Special protective actions for fire-fighters** In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.

Exposure to decomposition products may be a hazard to health.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective and equipment emergency procedures

Immediately evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Wear personal protective equipment. Unprotected persons must be kept

awav.

Remove all sources of ignition.

Avoid skin contact with leaking liquid (danger of frostbite).

Ventilate the area.

After release, disperses into the air.

Vapours are heavier than air and can cause suffocation by reducing

oxygen available for breathing.

Avoid accumulation of vapours in low areas.

Unprotected personnel should not return until air has been tested and

determined safe.

6.2 **Environmental precautions**  Prevent further leakage or spillage if safe to do so.

The product evapourates readily.

Prevent spreading over a wide area (e.g. by containment or oil

6.3 Methods and materials for containment

and cleaning up

Do not direct water spray at the point of leakage.

Allow to evaporate.

### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Handling

7.1.1 Precautions for safe handling Handle with care.

Avoid inhalation of vapour or mist.

Do not get in eyes, on skin, or on clothing.

Wear personal protective equipment.

Pressurized container. Protect from sunlight and do not expose to

temperatures exceeding 50 °C.

Follow all standard safety precautions for handling and use of

compressed gas cylinders. Use authorized cylinders only.

Protect cylinders from physical damage.

Do not puncture or drop cylinders, expose them to open flame or

excessive heat.

Do not pierce or burn, even after use. Do not spray on a naked flame

or any incandescent material.

Do not remove screw cap until immediately ready for use.

Always replace cap after use.

7.1.2 Advice on protection against fire

and explosion

Do not spray on a naked flame or any incandescent material.

Keep away from direct sunlight.

Fire or intense heat may cause violent rupture of packages.

Vapours may form explosive mixtures with air.

7.2

7.2.1 Conditions for safe storage, including any incompatibilities The product is not easily combustible.

Keep containers tightly closed in a cool, well-ventilated place.

Keep away from direct sunlight.

Protect cylinders from physical damage. Store away from incompatible substances.

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7.2.2 Further information on storage Keep only in the original container at temperature not exceeding

50°0

7.2.3 Advice on common storage Do not store together with:

Oxidizing agents

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 EXPOSURE CONTROLS

conditions

**Protective measures** Do not breathe vapour.

Avoid contact with skin, eyes and clothing.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Engineering measures Local exhaust

8.2. Individual protection measures, such as

personal protective equipment (PPE)

Eye/face protectionGogglesHand protectionProtective gloves

Skin and body protection Impervious clothing

Wear cold insulating gloves/ face shield/ eye protection.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Wear a positive-pressure supplied-air respirator.

Avoid breathing vapours, mist or gas. Keep working clothes separately.

### 8.3. Exposure Guidelines

Hygiene measures

Chemical name	CAS No.	Value	Control parameters	Update	Basis
trans-1,3,3,3- Tetrafluoroprop-1-ene	29118-24-9	TWA : Time weighted average	(800 ppm)	2012	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and

### chemical properties

Physical state
Color
Color
Color
Slight ether-like
PH
Note: neutral
Boiling point/boiling range
Liquefied gas
colourless
Note: neutral

Flash point Note: Not applicable

Lower explosion limit Note: No LEL and UEL was assigned at standard testing

conditions, 20°C, Exhibits flame limits at temperatures in excess

of 28° C

Upper explosion limit Note: No LEL and UEL was assigned at standard testing

conditions, 20°C., Exhibits flame limits at temperatures in excess

of 28° C

Vapor pressure 4,271 hPa at 20 °C(68 °F)

11,152 hPa at 54.4 °C(129.9 °F)

Vapor density 4 Note: (Air = 1.0)

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Density 1.17 g/cm3 at 21.1 °C

Water solubility

Partition coefficient: n-octanol/water

Ignition temperature

0.373 g/l

log Pow: 1.6

368 °C

Method: Auto-ignition temperature

### **SECTION 10: STABILITY AND REACTIVITY**

10.1	Chemical stability	Stable under normal conditions.
10.2	Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.3	Conditions to avoid	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.  Can form a combustible mixture with air at pressures above atmospheric pressure.  Do not mix with oxygen or air above atmospheric pressure.
10.4	Incompatible materials	Reactions with alkali metals.
10.5	Hazardous decomposition products	Halogenated compounds Carbon oxides Hydrogen fluoride Carbonyl halide

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Acute Oral toxicity Note: Not applicable study technically not feasible

Acute Inhalation toxicity Species: Mouse

Note: Acute (4-Hour) Inhalation Toxicity Screening Study (mouse):

No lethality at >100,000 ppm.

LC50: > 207000 ppm Exposure time: 4 h Species: Rat

Acute Dermal toxicity Note: no data available study technically not feasible

**Skin irritation** Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

**Eye irritation** Note: no data available study technically not feasible

Sensitisation Cardiac sensitization

Species: dogs

Result: Did not cause sensitisation on laboratory animals.

Species: human

Result: Does not cause skin sensitisation.

Repeated dose toxicity Species: Rat

Application Route: Inhalation Exposure time: 13 Weeks

Note: Causes mild effects on the heart. NOEL 5,000 ppm

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Genotoxicity in vitro Test Method: Chromosome aberration test in vitro

Cell type: Human lymphocytes

Result: negative

Method: OECD Test Guideline 473

Test Method: Ames test

Result: negative

Genotoxicity in vivo

Test Method: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Mouse

Cell type: Micronucleus Application Route: Inhalation Method: OECD Test Guideline 474

Result: negative

Reproductive toxicity Test Method: Two-generation study

Species: Rat

Application Route: Inhalation NOEL: > 20,000 ppm NOEL: > 20,000 ppm

Method: OECD Test Guideline 416

Teratogenicity

Species: Rabbit Method: OECD 416

Note: Did not show teratogenic effects in animal experiments.

Species: Rat Method: OECD 416

Note: Did not show teratogenic effects in animal experiments.

Teratogenicity

Species: RatApplication Route: Inhalation

NOAEC: 15,000 ppm

Method: OECD Test Guideline 414

Elimination information (persistence and degradability)

Bioaccumulation Note: No bioaccumulation is to be expected (log Pow <= 4).

Biodegradability aerobic Result: Not readily biodegradable.

Further information on ecology Additional ecological information

no data available

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### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 **Ecotoxicity effects** 

> Toxicity to fish LC0: > 117 mg/l Exposure time: 96 h

Species: Cyprinus carpio (Carp) Method: OECD Test Guideline 203

Toxicity to daphnia and other

EC50: > 160 mg/l aquatic invertebrates Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Growth rate Toxicity to algae

NOEC: > 170 mg/l Exposure time: 72 h Species: Algae

Method: OECD Test Guideline 201

Biomass

static test

NOEC: > 170 mg/l Exposure time: 72 h Species: Algae

Method: OECD Test Guideline 201

12.2 **Elimination information** 

(persistence and degradability)

Bioaccumulation Note: No bioaccumulation is to be expected (log Pow <= 4).

Biodegradability aerobic Result: Not readily biodegradable.

Further information on ecology 12.3

Additional ecological information

no data available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Observe all Federal, State, and Local Environmental regulations. **Disposal methods** 

### **SECTION 14: TRANSPORT INFORMATION**

14.1 DOT

UN/ID No. UN 3163

LIQUEFIED GAS, N.O.S. (trans-1,3,3,3-Tetrafluoroprop-1-ene) Proper shipping name

Class

Packing group Hazard Labels 2.2

14.2 IATA

> UN/ID No. UN 3163

Description of the goods LIQUEFIED GAS, N.O.S. (trans-1,3,3,3-Tetrafluoroprop-1-ene)

Class 2.2 Hazard Labels 2.2 Packing instruction (cargo aircraft) 200 Packing instruction (passenger aircraft) 200

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14.3 IMDG

UN/ID No. UN 3163

Description of the goods LIQUEFIED GAS, N.O.S. (trans-1,3,3,3-Tetrafluoroprop-1-ene)

Class 2.2
Hazard Labels 2.2
EmS Number F-C, S-V
Marine pollutant no

#### **SECTION 15: REGULATORY INFORMATIONSECTION**

15.1 Inventories

US. Toxic Substances Control Act

On TSCA Inventory

Australia. Industrial Chemical On the inventory, or in compliance with the inventory (Notification and Assessment) Act

Canada. Canadian Environmental Protection All components of this product are on the Canadian DSL Act(CEPA). Domestic Substances List (DSL)

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)

On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Not in compliance with the inventory Hazardous and Nuclear Waste Control Act

China. Inventory of Existing Chemical On the inventory, or in compliance with the inventory

Substances

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

On the inventory, or in compliance with the inventory

15.2 National regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards Acute Health Hazard

Sudden Release of Pressure Hazard

California Prop. 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

### **SECTION 16: OTHER INFORMATION**

	HMIS III:	NFPA
Health hazard	1	2
Flammability	1	1
Physical Hazard	0	
Instability		0

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Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Previous Issue Date: 06/19/2018

#### OTHER INFORMATION

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- (3) It is your own responsibility to examine and confirm if the Material meets or suits any regulation or restriction in your country or of your local authority.
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