
MATERIAL SAFETY DATA SHEET

Manufacturer: Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146, Japan

Distributor:

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SECTION 1 IDENTIFICATION

PRODUCT NAME : INK CARTRIDGE, W/O PRINT HEAD FOR COLOR INK JET PRINTER
BJ-A531A (COLOR) (M3329G/A)

DESCRIPTION : Liquid mixture, three color(cyan, magenta, yellow) ink for Apple
Style Writer

CANON ITEM NO : F47-0891-500

SECTION 2 INGREDIENTS

<u>Principal components</u>	<u>Wt. %</u>	<u>USA OSHA*1</u>	<u>ACGIH*2</u>	<u>DFG*3</u>
Water (7732-18-5)	60-90	---	---	---
Glycerin (56-81-5)	5-10	(as mist) Total dust TWA 15 mg/m ³ Respirable fraction TWA 5 mg/m ³	(as mist) Total dust TWA 10mg/m ³	---
Water-soluble organic solvent	5-10	---	---	---
Water-soluble organic compound	5-10	---	---	---
Isopropyl alcohol	< 5	TWA 400ppm	TWA 400ppm	MAK 400ppm

--- Not established

SECTION 3 PHYSICAL DATA

BOILING POINT / MELTING POINT: No data available

VAPOR PRESSURE (mmHg): No data available

VAPOR DENSITY (AIR=1): No data available

SOLUBILITY IN WATER : Miscible

SOLUBILITY IN ORGANIC SOLVENT: Glycerin, ethylene glycol, isopropyl alcohol

SPECIFIC GRAVITY (H₂O=1): 1.07 - 1.08

PERCENT VOLATILE BY VOLUME .(%): No data available

EVAPORATION RATE (BUTHYL ACETATE=1): No data available

pH: 8 to 10

APPEARANCE AND ODOR: Three colors(cyan, magenta, yellow) liquid,
mild odor

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) : No data available
IGNITION TEMPERATURE : No data available
FLAMMABILITY : No data available
FLAMMABLE LIMITS : No data available
EXTINGUISHING MEDIA : Water, CO₂, Dry chemicals
SPECIAL FIRE FIGHTING PROCEDURES : None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 5 HEALTH HAZARD DATA

EXPOSURE LIMITS: See SECTION 2

EFFECTS OF OVEREXPOSURE:

Inhalation : No specific hazard are known to Canon under usual condition.
Ingestion : May be harmful if swallowed.
Eye contact : May cause slight irritation.
Skin contact : May cause slight irritation.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation : If person breathes in large amounts, remove to fresh air.
Get medical attention.
Ingestion : Call a physician.
Eye contact : Flush with plenty of water .
Skin contact : Wash with water and soap.

TOXICITY DATA: No data available

MUTAGENICITY: Negative (test strains: S. typhimurium)

CARCINOGENICITY: No human carcinogen or potential carcinogen, according to IARC Monographs*⁴, NTP*⁵, OSHA(USA) regulation and Annex I to Directive 67/548/EEC.

SECTION 6 REACTIVITY DATA

STABILITY : Stable
INCOMPATIBILITY : None
HAZARDOUS DECOMPOSITION PRODUCTS : Ammonia
HAZARDOUS POLYMERIZATION : Will not occur

SECTION 7 SAFE USE OR HANDLING

STEPS TO BE TAKEN

IN CASE MATERIAL IS RELEASED OR SPILLED:

Wipe off with paper or wet cloth.

WASTE DISPOSAL METHOD:

Disposal should be subject to federal, state or local laws.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	:	Not required
VENTILATION	:	Not required
PROTECTIVE GLOVES	:	Not required
EYE PROTECTION	:	Not required
OTHER PROTECTIVE EQUIPMENT	:	Not required

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep out of reach of children.

Do not take internally.

SECTION 10 USA INFORMATION

CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III:

§313 Chemical

None

This 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 other process. And, it is based on the level of our knowledge as of the date of preparation.

ABBREVIATION

- *1 The column "OSHA" reveals PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
- *2 The column "ACGIH" reveals TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- *3 The column "DFG" reveals MAK(Maximum Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
- *4 The term "IARC" stands for International Agency for Research on Cancer.
- *5 The term "NTP" stands for National Toxicology Program (USA).