AstroNova®
Product Identification

Safety Data Sheet

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SECTION 1: Product and company identification

Product identifier

Product name Ink Part# 14731402, 14731302, 14731212
Magenta Ink Cartridge

Product code(s) 9170B002

Use Ink for Ink Jet Printer

Details of the supplier of the safety data sheet

Supplier

Manufacturer
CANON FINETECH NISCA INC.
14-1, Chuo 1-chome, Misato-shi, Saitama 341-8527, Japan

SECTION 2: Hazards identification

Emergency Overview

Ink tank containing magenta liquid ink with slight odor.
2-Pyrrolidinone may damage fertility or the unborn child.
Ethyleneurea may cause damage to thyroid gland through prolonged or repeated exposure.

Classification under OSHA HCS

Reproductive toxicity, Category 1B
Specific target organ toxicity - repeated exposure (thyroid gland), Category 2

US Label Elements under OSHA HCS

Symbol

Signal word
Danger

Hazard statements
May damage fertility or the unborn child.
May cause damage to thyroid gland through prolonged or repeated exposure.

Precautionary statements
Not required

Other Information
None

Other hazards which do not result in classification
None

SECTION 3: Composition/information on ingredients

Chemical name	CAS-No	Weight %
Ethyleneurea	120-93-4	5-10
2-Pyrrolidinone	616-45-5	1-5
Glycerin	56-81-5	1-5
Pyridine Azo dye	CBI	1-5
Water	7732-18-5	60-80

SECTION 4: First aid measures

Description of first aid measures

Inhalation If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion Rinse mouth. Give one or two glasses of water.
If irritation or discomfort occurs, obtain medical advice immediately.

Skin contact Wash with water and soap or mild detergent.
If irritation persists, obtain medical advice.

Eye contact Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.
If irritation persists, obtain medical advice immediately.

Most important symptoms and effects, both acute and delayed

Inhalation No adverse effects are expected under intended use.
Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Skin contact Neither irritation nor sensitization is expected. (See SECTION 11)

Eye contact May cause mild irritation. (See SECTION 11)

Chronic effects Not identified

Indication of any immediate medical attention and special treatment needed
None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media
CO_2, water, foam or dry chemicals

Unsuitable extinguishing media
None

Special hazards arising from the substance or mixture

Special hazard
None

Hazardous combustion products
CO, CO_2, NOx and SOx

Advice for firefighters

Special protective equipment for fire-fighters
None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothing.
Avoid breathing vapor and mist.

Environmental precautions
Do not release to sewer, surface water or ground water.

Methods and material for containment and cleaning up
Wipe off with wet cloth or paper.

Other information
None

SECTION 7: Handling and storage

Precautions for safe handling
Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Avoid breathing vapor and mist.
In case of contact, wash out the contaminated area immediately.

Conditions for safe storage, including any incompatibilities
Keep in a cool and dry place.
Protect from sunlight.
Keep out of the reach of children.

Specific end uses
Ink for Ink Jet Printer.
For more information, please refer to the instruction of this product.

SECTION 8: Exposure controls/personal protection

Exposure guidelines

Chemical name	OSHA PEL	ACGIH TLV
Glycerin	15 mg/m^3 (mist, total dust) 5 mg/m^3 (mist, respirable fraction)	Not established

Appropriate engineering controls No special ventilation equipment is needed under intended use of this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Not required
Skin protection	Not required
Respiratory protection	Not required

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Magenta liquid
Odor	Slight odor
Odor threshold	Not available
pH	7-9
Melting point/Freezing point (°C)	Not available
Initial boiling point and boiling range (°C)	Not available
Flash point (°C)	None (Estimate)
Evaporation rate	Not available
Flammability (solid, gas)	Neither flammable nor combustible.
Upper/lower flammability or explosive limits	
Upper flammability limit	Not available
Lower flammability limit	Not available
Upper explosive limit	Not available
Lower explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.0-1.1
Solubility(ies)	Water: Miscible
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature (°C)	Not available
Decomposition temperature (°C)	Not available
Viscosity (mPa·s)	1-5
Explosive properties	None (Estimate)
Oxidizing properties	None (Estimate)

Other information

None

SECTION 10: Stability and reactivity

Reactivity

None

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

None

Incompatible materials

Acids, bases, oxidizing materials and reducing agents.

Hazardous decomposition products
CO, CO_2, NOx and SOx

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	Not available
Skin corrosion/irritation	Not irritant (rabbit) (Estimate based on data of similar ink or ingredient(s).) OECD Guidelines No.404 (2002), (EC) 440/2008 Method B4
Serious eye damage/eye irritation	Mild irritant (rabbit) (Estimate based on data of similar ink or ingredient(s).) OECD Guidelines No.405 (2002), (EC) 440/2008 Method B5
Sensitization	Not sensitizing (LLNA, mouse) (Estimate based on data of similar ink or ingredient(s).) OECD Guidelines No.429 (2010), (EC) 440/2008 Method B42
Germ cell mutagenicity	Ames test: Negative
Carcinogenicity	Not available
Reproductive toxicity	2-Pyrrolidinone is classified as a Category 1B (GHS) reproductive toxicant. However, the amount of exposure to 2-Pyrrolidinone is negligible under intended use of this product.
STOT - single exposure	Not available
STOT - repeated exposure	Ethyleneurea is classified as a STOT-RE Category 2 (thyroid gland) under GHS. However, the amount of exposure to Ethyleneurea is negligible under intended use of this product.
Aspiration hazard	Not available
Other information	Not available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects

Acute toxicity to fish:	96-hr LC50 > 100 mg/L (*Oryzias latipes*) OECD Guidelines No.203 (1992)
Acute toxicity to daphnia:	48-hr EC50 > 100 mg/L, NOEC = 100 mg/L (*Daphnia magna*) OECD Guidelines No.202(2004), (EC) No 440/2008 Method C.2
Acute toxicity to aquatic plants:	7-day EC50 > 100 mg/L, NOEC = 100 mg/L (*Lemna minor*) OECD Guidelines No.221(2006)

Persistence and degradability
Not available

Bioaccumulative potential
Not available

Mobility in soil
Not available

Other adverse effects
Not available

SECTION 13: Disposal considerations

Waste treatment methods
Disposal should be subject to federal, state and local laws.

SECTION 14: Transport information

UN number	None
UN proper shipping name	None
Transport hazard class	None
Packing group	None
Environmental hazards	No special environmental precautions required.
Special precautions for users	None
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

TSCA Sec. 4,5,6,7,8,12b	None
SARA Title III Sec. 313	None
California Proposition 65	None
CEPA Sec. 81	None (Manufactured item)
HPA (WHMIS)	None (Manufactured article)
Other information	None

SECTION 16: Other information

Key literature references and sources for data
- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Environmental Protection Agency, 40CFR Part 700-799
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- California EPA, Code of Regulations Title 27. Division 4. Chapter 1. Safe Drinking Water and Toxic Enforcement Act of 1986
- Environment Canada, Canadian Environmental Protection Act, 1999
- Health Canada, Hazardous Products Act, and Controlled Products Regulations
- Canada Workplace Hazardous Materials Information System

Key or legend to abbreviations and acronyms used in the safety data sheet
- OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)
- IARC: International Agency for Research on Cancer
- OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
- ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- TSCA: Toxic Substances Control Act
- SARA Title III: SARA Title III of the Superfund Amendments and Reauthorization Act of 1986
- Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986
- CEPA: Canadian Environmental Protection Act, 1999
- HPA: Hazardous Products Act
- WHMIS: Workplace Hazardous Materials Information System
- CBI: Confidential Business Information

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Revision note: SECTION 1, 2, 3, 9, 11 and 16 have been revised.

Disclaimer
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