

Safety Data Sheet

Issuing date: June 29, 2018
Revision date:

SDS #: NIRM-068E(US)-001
Version: 01

SECTION 1: Product and company identification

Product identifier

Product name Ink Ribbon IXR-YMCK
Product code(s) 2495C002
Use Ink ribbon for thermal transfer printer

Details of the supplier of the safety data sheet

Supplier

Canon USA, Inc.
One Canon Park, Melville, NY 11747, USA
Phone number : 1-800-OK-CANON
Emergency phone number : 24 Hr. Emergency CHEMTREC # 1-800-424-9300

Manufacturer

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

SECTION 2: Hazards identification

Classification under OSHA HCS

Not classified

US Label Elements under OSHA HCS

Symbol

Not required

Signal word

Not required

Hazard statements

Not required

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 %
Polyethylene-terephthalate	25038-59-9	70-80
Polyvinyl-alkylacetal	70775-95-0	1-10
Vinyl-acetate-chloride-copolymer	9003-22-9	1-10
Polyisocyanate	9046-75-7	1-10
Dye(Total)	CBI	1-5
Carbon black	1333-86-4	1.0

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms continue, call a doctor/physician.
Ingestion	Rinse mouth. Immediately get medical advice/attention.
Skin contact	Rinse with plenty of water and soap. If symptoms continue, call a doctor/physician
Eye contact	Immediately rinse cautiously with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a doctor/physician.

Most important symptoms and effects, both acute and delayed

Inhalation	No adverse effects are expected under intended use.
Ingestion	No adverse effects are expected under intended use.
Skin contact	No adverse effects are expected under intended use.
Eye contact	No adverse effects are expected under intended use.
Chronic effects	No adverse effects are expected under intended use.

Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use water mist, dry chemical powder, fire foam or carbon dioxide.

Unsuitable extinguishing media

None

Special hazards arising from the substance or mixture

Special hazard

The product is not classified as flammable, but will burn if involved in a fire, forming smoke, and toxic fumes, gases and vapors.

Hazardous combustion products

CO, CO₂, NO_x and SO_x

Advice for firefighters

Special protective equipment for fire-fighters

Cut off any ignition sources and extinguish with an appropriate agent.
Take action from windward. Keep out except responsible personnel.
Wear gloves, glasses, a mask if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eye and clothing.
In case of contact, wash out the contaminated area immediately.

Environmental precautions

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

Methods and material for containment and cleaning up

Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collect them into an empty container.
Disposal should be subject to nation, state and local law.
Prevent to flowing into drains, sewers, basements or closed areas.

Other information

None

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eye and clothing.
In case of contact, wash out the contaminated area immediately.
Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep in a cool and dry place.
Protect from sunlight.
Keep out of the reach of children. Keep out of the reach of children.

Specific end uses

Ink ribbon for thermal transfer printer.

SECTION 8: Exposure controls/personal protection

Exposure guidelines

Chemical name	OSHA PEL	ACGIH TLV (2018)
Carbon Black	3.5 mg/m ³	TWA: 3.0 mg/m ³

Appropriate engineering controls Good general ventilation is recommended.

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	Solid color coating coated on polyethylene terephthalate film (Yellow, Magenta, Cyan and Black layer)
Odor	Odorless
Odor threshold	Not available
pH	Not available
Melting point/Freezing point (°C)	Not available
Boiling Point/Range (°C)	Not available
Flash point (°C)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability Limits in Air	
Upper flammability limit	Not available
Lower flammability limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not available
Autoignition temperature (°C)	Not available
Decomposition temperature (°C)	Not available
Viscosity (mPa·s)	Not available

Other information

None

SECTION 10: Stability and reactivity

Reactivity

Stable under normal handling condition.

Chemical stability

Stable under normal handling condition.

Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

Conditions to avoid

Keep away from heat and flame. Keep in a cool and dry place.
Protect from sunlight. Keep out of the reach of children.

Incompatible materials

Oxidizing agents

Hazardous decomposition products

CO, CO₂, NO_x and SO_x

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	Not available
Skin corrosion/irritation	[Magenta, Cyan and Black ribbon] Not irritant (rabbit) [Yellow ink] Mild irritant (rabbit)
Serious eye damage/eye irritation	Not available
Sensitization	[Magenta, Cyan and Black ribbon] Not sensitizing (Buehler test) [Yellow ink] Not sensitizing (Guinea pig maximization test)
Germ cell mutagenicity	[Extracts from yellow, magenta, cyan and black ribbon] Negative in Ames test
Carcinogenicity	The IARC evaluated carbon black, as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. When used under normal and recommended conditions, the carbon black in this application will not be air born and subject to inhalation.
Reproductive toxicity	Not available
STOT - single exposure	Not available
STOT - repeated exposure	Not available
Aspiration hazard	Not available
Other information	Not available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects

[Information on ingredients]

About 0.4% containing ingredients classified as Aquatic Acute Category 1/Aquatic Chronic Category 1.

About 1.3% containing ingredients classified as Aquatic Chronic Category 4.

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

<u>UN number</u>	None
<u>UN proper shipping name</u>	None
<u>Transport hazard class</u>	None
<u>Packing group</u>	None
<u>Environmental hazards</u>	No special environmental precautions required.
<u>Special precautions for users</u>	None
<u>Transport in bulk according to Annex II of MARPOL and the IBC Code</u>	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	Not applicable (Manufactured item)
HPA (WHMIS)	Not applicable (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

Issuing date: June 29, 2018

Revision date:

Ink Ribbon IXR-YMCK
SDS #: NIRM-068E(US)-001

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
- 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

Issuing date: June 29, 2018

Revision date:

Revision note:

Disclaimer

The information provided on this SDS 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.