

Safety Data Sheet

according to Regulation(EC) No.1907/2006(REACH)

Revision: 001

Section 1: Identification

Product identifier used on the label:

Product name: Ink Ribbon for Thermal Transfer Printer
Product code: Ink ribbon 4x6(AD-NH)

The products above is composed from color image transfer sheet and image receiver sheet.

Only the transferable materials of color image transfer sheet are subject to Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH).

Other means of identification:

No information

Recommended use of the chemical and restrictions on use:

Recommended use: Printing media for Thermal Transfer Printer
Restrictions on use: No information

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Name: Nobuhiko Kudou
Department in Charge: Manager, Quality Assurance Division
Address: 1-1-1, Ichigaya-Kagacho, Shinjuku-ku, Tokyo 162-8001, Japan
Telephone number: +81-3-6735-6220 (9:00-18:00 JST)
e-mail address: dnp-img-product-safety@team.dnp.co.jp

Emergency phone number

+81-3-6735-6220 (9:00-18:00 JST)

Section 2: Hazard(s) identification

Classification of the chemical in accordance with Regulation (EC) No 1272/2008 :

Physical Hazards Not classified
Health Hazards Not classified
Environmental Hazards Not classified

Label Elements: According to Regulation (EC) No 1272/2008 :

Hazard Pictogram Not required
Signal word Not required
Hazard Statement(s) Not required
Precautionary Statement(s) Not required

Other hazards :

No information

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Section 3: Composition/information on ingredients

Compositions (contents of the product)

Dye-sublimation thermal transfer printer ink ribbon

Chemical name	CAS No.	Concentration ranges (wt %)
Polyethylene-terephthalate	25038-59-9	70-80
Polyvinyl alkyl acetal	70775-95-0	5-15
Acrylic resin	-	1-10
Phosphate ester	68071-35-2, 68131-39-5	1-3
Colloidal alumina	24623-77-6	1-3
Dyes (total)	-	1-3
Vinyl-acetate-chloride-copolymer	-	1-3
Others	-	1-10

Section 4: First-aid measures

Description of first aid measures:

IF INHALED

No adverse effects are expected under intended use.

IF ON SKIN

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

IF IN EYES

Do not rub eyes. Immediately flush with large amount of clean, warm water (low pressure) for at least 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice immediately.

IF SWALLOWED

Rinse mouth with plenty of water.

If ingestion of a large amount dose occurs, obtain medical advice immediately.

Most important symptoms and effects, both acute and delayed:

IF INHALED

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

IF ON SKIN

Not known

IF IN EYES

Not known

IF SWALLOWED

The data expected adverse effect is none.

Indication of immediate medical attention and special treatment needed, if necessary;

No information

Section 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media;

Suitable extinguishing media:

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

Unsuitable extinguishing media

None

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Specific hazards arising from the chemical:

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

Special protective equipment and precautions 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 materials 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.

Reference to other sections:

None

Section 7: Handling and storage

Precautions for safe handling

Protective measures:

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.

Advice on general occupational hygiene:

Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures:

Good general ventilation is recommended.

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Incompatible materials:

Oxidizing agents

Conditions for safe storage:

Keep away from heat and flame. Keep in a cool and dry place.

Protect from sunlight. Keep out of the reach of children.

Packing material:

Use a sealed container without damage or leakage.

Specific End Use(s):

Color ribbon for thermal transfer printer.

Section 8: Exposure controls/personal protection**Occupational Exposure Limits:****Control Parameters:** Not established for this color ribbon.

DNEL	Not available
PNEC	Not available
NIOSH REL	3.5 mg/m ³

Exposure Controls: Not established for this color ribbon.**Appropriate engineering controls:**

No engineering control is needed under intended use of this color ribbon.

Good general ventilation is recommended.

Individual protection measures, such as personal protective equipment:

Respiratory protection	Not required
Hand protection	Not required
Eye protection	Not required
Skin and body protection	Not required

Environmental exposure controls:

Not available.

Section 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Solid color coating coated on polyethylene terephthalate film (Yellow, Magenta, Cyan and colourless panel)
Odor	Odorless
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Slightly flammable when exposed to heat or flame
Upper/lower flammability or	Not available
Vapor pressure	Not available

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Vapor density	Not available
Relative density	Not available
Solubility (ies)	Water : Insoluble
Partition coefficient: <i>n</i> -octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive Properties	Not available
Oxidizing Properties	Not available

Other information

No information

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 productsThermal decomposition gives CO, CO₂, NO_x and SO_x**Section 11: Toxicological information**

Information on product:

Information on	Information on
Skin Corrosion / Irritation	Not available
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
Reproductive Toxicity	Not available
STOP-Single Exposure	Not available
STOP-Repeated Exposure	Not available
Aspiration Hazard	Not available

Information on ingredients: None

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Section 12: Ecological information

Ecotoxicity:

Information on product: None

No information about the product

Information on ingredients:

About 0.2% containing ingredients (dye material)	Classified as EU CLP Regulation 1272/2008 Aquatic Acute Category 1 / Aquatic Chronic Category 1
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About 0.2% containing ingredients (dye materials)	Classified as EU CLP Regulation 1272/2008 Aquatic Chronic Category 4
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Persistence and degradability:

Information on product : None

Information on ingredients: None

Bioaccumulative potential:

Information on product : None

Information on ingredients: None

Mobility in soil:

Information on product : None

Information on ingredients: None

Results of PBT and vPvB Assessment:

Information on product : None

Information on ingredients: None

Other adverse effects:

No information

Section 13: Disposal considerations

Waste treatment methods

Dispose of waste materials according to Local, State, Federal, and Provincial environmental regulations, based on the composition of the product. Metals are included part of a flange of color ribbon. General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC).

Section 14: Transport information

UN number	Not applicable
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UN proper shipping name	Not applicable
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Transport hazard class(es)	Not applicable
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Packing group	Not applicable
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Environmental hazards Not applicable**Transport in bulk according to Annex II of MARPOL 73/78 and IBC code**

Not applicable

Special precautions for user

When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.

Section 15: Regulatory information**Safety, Health and Environmental Regulations/Legislation Specific for the substance or mixture:****REACH Regulation (1907/2006):** Authorisation: Not regulated

Restriction: Not regulated

Chemical Safety assessment:**REACH Regulation (1907/2006):** Not required**Section 16: Other information, including date of preparation or last revision**

This information herein is based on the best of our knowledge and is only related to this specific product. No warranty, either expressed or implied, is made with respect to such information. The recommended handling procedures are believed to be generally applicable. However, it is user's responsibility to review these recommendations in the specific content of the intended use. We reserve the right to revise this SDS as new information becomes available.

[Disclaimer]

This SDS has been prepared based on the best available information; however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.

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