Ink for Pen and ribbon cassette as the chart recorder's accessories includes chemical substances specified in Japanese domestic law 'Industrial Safety and Health Act'. Please read safety information in the safety data sheet (next page) of parts below for your safety and appropriate use.

<table>
<thead>
<tr>
<th>Parts No.</th>
<th>Product Name in Safety Data Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>B9627AZ</td>
<td>Inked Ribbon Cassette YEW 08 (B9627AZ / B9848QB / B9849NN)</td>
</tr>
</tbody>
</table>

The information herein is only provision of information, and it does not represent a guarantee the properties of the product.
Safety Data Sheet

IDENTITY

Inked Ribbon Cassette B9627AZ / B9848QB / B9849NN

1. Identification of the substance/mixture and of the supplier

1.1 Product identifier
   Product name: Inkde Ribbon Cassette YE 08 (B9627AZ / B9848QB / B9849NN)
   Product description: 10 colors Inked Ribbon Cartridge

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Material uses: Printing use
   Uses advised against: No additional information available

1.3 Details of the supplier of the safety data sheet
   Manufacturer: DYNIC Corporation
   Shin-Onarimon Building, 6-17-19, Shimbashi, Minato-ku, Tokyo, Japan
   Tel: +81-3-5402-3137  Fax: +81-3-5402-3149

1.4 Emergency telephone Number: +81-3-5402-3137
   Supported 08:50 to 17:30 Japan Time, from Monday to Friday except national holidays

2. Hazards identification

2.1 Classification of the ink
   Classification according to the Globally Harmonized System (GHS)
   Not determined
   Adverse physicochemical, human health and environmental effects
   No additional information available.

2.2 Label elements
   Labelling according to the Globally Harmonized System (GHS)
   Hazard pictograms (GHS): Not determined
   Signal word: Not determined
   Hazard ingredients: Carbon Black
   Mineral oil
   Hazard statements: Not determined
   Precautionary statements (GHS):
   P201 - Obtain special instructions before use
   P202 - Do not handle until safety precautions have been read and understood.
   P273 - Avoid release to the environment.
   Supplemental information: No additional information available.

2.3 Other hazards
   No additional information available.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance / mixture</th>
<th>Predominant Components</th>
<th>CAS No.</th>
<th>content rate</th>
<th>Classification according to the Globally Harmonized System (GHS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. INK</td>
<td>Vegetable oil</td>
<td>68554-11-0</td>
<td>20~30%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Animal fat oil</td>
<td>8016-28-2</td>
<td>10~20%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Mineral oil</td>
<td>8042-47-5</td>
<td>20~30%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Mineral oil</td>
<td>101316-72-7</td>
<td>10~20%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Surfactant</td>
<td>8030-76-0</td>
<td>1~ 5%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Surfactant</td>
<td>8007-43-0</td>
<td>1~ 5%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Coloring material</td>
<td>5102-83-0</td>
<td>1~ 5%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Coloring material</td>
<td>7023-61-2</td>
<td>1~ 5%</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Coloring material</td>
<td>7585-41-3</td>
<td>1~ 5%</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
Table:

<table>
<thead>
<tr>
<th>Material</th>
<th>Code</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coloring material 1325-82-2</td>
<td>1 - 5%</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Coloring material 1325-87-7</td>
<td>1 - 5%</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Coloring material 147-14-8</td>
<td>1 - 5%</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Coloring material 15782-05-5</td>
<td>1 - 5%</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td>1 - 5%</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Filler 7727-43-7</td>
<td>1 - 5%</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>

2. FABRIC RIBBON

<table>
<thead>
<tr>
<th>Material</th>
<th>Code</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyamide 6,6 fabric 32131-17-2</td>
<td></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

3. MOLDING PARTS

<table>
<thead>
<tr>
<th>Material</th>
<th>Code</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS resin 9003-56-9</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>POM resin 30846-29-8</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>NBR rubber 9003-18-3</td>
<td></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

4. First-aid measures

4.1 Description of first aid measures

**Inhalation:** Not applicable

**Skin Contact:** Wash away ink on skin with soap and water. If your skin is irritated, consult a doctor.

**Eye Contact:** Flush the eye with enough water. If the eye is inflamed, consult a doctor.

**Ingestion:** Rinse your mouth with water and seek proper treatment.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to the product known

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

5. Fire-fighting measures

5.1 Extinguishing media

**Suitable extinguishing media:** Chemical powder, CO₂-gas, Water mist, Sand, Foam and others.

**Unsuitable extinguishing media:** Not applicable

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear.

5.4 Measures when the Leakage

Collect it in immediately

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures:

High risk of slipping due to leakage/spillage of ink. In case of spilled or leaked ink, sweep or gather up spills and disposal.

Use proper personal protective equipment as indicated in Section 8.

6.2 Environmental precautions

Do not pour into drains or waterways.

6.3 Methods and materials for containment and cleaning up

For containment: Not applicable

Methods for cleaning up: If inadvertently released, rewind fabric ribbon. And wipe off a dirty place in ink.

6.4 Reference to other sections

See Section 8 for further information on protective clothing and equipment.
See Section 13 for advice on waste disposal.

7. Handling and storage

7.1 Precautions for safe handling
Precautions for safe handling:
- Keep at room temperature.
- No special, For personal safety, see section 8.
Hygiene measures: No information available.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions: Store in cool, dry and dark place.

7.3 Specific end use(s)
Fabric ink ribbon cartridge as the printing use.

8. Exposure controls / personal protection

8.1 Control parameters
Carbon black
- UK: WEL TWA 3.5mg/m3
- USA · OSHA: WEL TWA 3.5mg/m3
Mineral Oil
- ACGIH: WEL TWA 5.0mg/m3
- JPN: WEL TWA 3.0 mg/m3

8.2 Exposure controls
- Appropriate engineering controls: Not applicable
- Personal protective equipment:
  - Hand protection: Gloves if necessary. (Not necessary if used in normal handling conditions.)
  - Eye protection: None
  - Skin and body protection: None
  - Respiratory Protection: None
  - Environmental exposure controls: None
- Other information: None

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Physical state: Polyamide 6,6 fabric impregnated with liquid 10 colors ink which was in the cassette.
- Color: 10 Colors (red, brown, blue, green, black, orange, & purple etc)
- Odor: slight odor
- Odor threshold: No data available
- pH: No data available
- Relative evaporation rate (butylacetate=1): No data available
- Melting point: No data available
- Freezing point: No data available
- Boiling point: Above 180°C (356°F)
- Flash point: Above 190°C (374°F)
- Self ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability(solid, gas): This product is not classified as flammable.
  (No flammable under normal temperatures and pressures.)
- Vapor pressure: No data available
- Relative vapor density at 20°C: No data available
- Relative density: No data available
Solubility(ies): Solubility in water: None
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2 Other information
No additional information applicable

10. Stability and reactivity

10.1 Reactivity:
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:
Stable under normal storage conditions.

10.3 Possibility of hazardous reactions:
No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid:
High temperature, high humidity, direct sunlight

10.5 Incompatible materials:
Not applicable

10.6 Hazardous decomposition products:
No dangerous decomposition products occur under normal storage and use conditions.

11. Toxicological information

11.1 Information on Toxicological effects
Acute toxicity: No data available
Skin corrosion / irritation: No data available
Serious eye damage / irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity:
Carbon black: 2.5% containing in ink, IARC Group 2B Possibility carcinogenic to humans.
But it does not exist on state of the powder.
Reproductive toxicity: No data available
Specific target organ systemic toxicity(Single exposure): No data available
Specific target organ systemic toxicity(Repeated exposure): No data available
Aspiration hazard: No data available

12. Ecological information

12.1 Toxicity Ecology-general:
No information available

12.2 Persistence and degradability:
No information available

12.3 Bioaccumulative potential:
No information available

12.4 Mobility in soil:
No information available
12.5 Results of PBT and vPvB assessment:
   No information available

12.6 Other adverse effects:
   Product is insoluble in water.

13. Disposal considerations

13.1 Waste treatment methods
   Waste disposal recommendations:
      Disposal and incineration may be subject to local & national regulations.
   Additional information: Not available

14. Transport information

14.1 UN number:
   Not applicable

14.2 UN proper shipping name:
   Not regulated

14.3 Transport hazard class(es)
   Class: Not applicable
   Hazard labels: Not applicable

14.4 Packing group:
   Not applicable

14.5 Environmental hazards
   Dangerous for the environment: No
   Marine pollutant: Not applicable
   Other information: No information available

14.6 Special precautions for user:
   Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
   Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 U.S. Regulation
   TSCA: All the ingredients are listed on the TSCA inventory.
   California Prop 65:
      This product contains a cause cancer chemicals listed on California prop 65.

15.1.2 National regulations
   Complies with following national chemical requirements: DSL, AICS and ENCS.

15.2 Chemical Safety Assessment
   No chemical safety assessments have been carried out.

16. Other information

Classification and procedure used to derive the classification for mixtures according to the Globally Harmonized System(GHS):

Data sources: Each materials SDS.

Other information: No information available

This Safety Data Sheet(SDS) is information, and it’s not safety guarantee. SDS is based on the data which we are aware of and is believed to be correct as of the prepared date. Therefore the contents of
SDS may change with no information, subject to the revision of the related regulations and new concept. In case of handing this products, refer to this SDS and take necessary procedure based on user's responsibility.

Date of Issue
- First edition: August. 5, 2015
- Revision A : August. 28, 2015
- Revision B : September. 14, 2016