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>B9585SH</td>
<td>Inked Ribbon Cassette YEW 07 (B9585SH / B9585SJ / B9587BD / B9624NG)</td>
</tr>
</tbody>
</table>

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

Inked Ribbon Cassette B9585SH / B9585SJ / B9587BD / B9624NG

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

1.1 Product identifier
Product name: Inked Ribbon Cassette YEW 07 (B9585SH / B9585SJ / B9587BD / B9624NG)
Product description: Black 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: Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predominant Components</td>
</tr>
<tr>
<td>1. INK</td>
</tr>
<tr>
<td>Vegetable oil</td>
</tr>
<tr>
<td>Animal fat oil</td>
</tr>
<tr>
<td>Mineral oil</td>
</tr>
<tr>
<td>Surfactant</td>
</tr>
<tr>
<td>Coloring material</td>
</tr>
<tr>
<td>Coloring material</td>
</tr>
<tr>
<td>Carbon Black</td>
</tr>
<tr>
<td>2. FABRIC RIBBON</td>
</tr>
<tr>
<td>Polyamide 6,6 fabric</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</td>
<td>9003-56-9</td>
<td>Not classified</td>
</tr>
<tr>
<td>POM resin</td>
<td>30846-29-8</td>
<td>Not classified</td>
</tr>
<tr>
<td>NBR rubber</td>
<td>9003-18-3</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, Form 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 black ink which was in the cassette.
Color: Black
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 crosssed 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. 13,2016

The END