1. Identification of the Substance/Preparation and of the Company/Undertaking

Product name: DOUBLE-COATED ADHESIVE TAPE
Product identifier: TR-5320F
Product Code: P020-00011172-0000
Supplier Address: Nitto Denko Corporation Toyohashi Plant
18, Hirayama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan
TEL.+81-532-41-8461, FAX. +81-532-41-8064
Department responsible: Quality Management Dept. Administration Div
Emergency telephone number: +81-532-41-1121 (Nitto Denko Corporation Toyohashi Plant)
Recommended Use: For LED light

2. Hazards Identification

GHS Classification:
Classification of the substance or mixture: Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic adhesive</td>
<td>-</td>
<td>93-97</td>
</tr>
<tr>
<td>Polyester film</td>
<td>-</td>
<td>3-7</td>
</tr>
<tr>
<td>Silicone coated paper (Release liner)</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. First aid measures

If inhaled: Will not occur
Skin contact: Wash with plenty of water and soap
Eye contact: In the case of skin irritation or allergic reactions see a physician
Ingestion: Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
Most important symptoms/effects, acute and delayed: Immediately induce vomiting and then consult a doctor
Self-protection of the first aider: No information available
Note to physicians: No information available

5. Fire-fighting measures

Fire extinguishing agent: Carbon dioxide (CO2)
Prohibited media: No information available
Special exposure hazards in a fire: No information available
Specific extinguishing methods: No information available
Advice for fire-fighters: Due to poisonous gas (chlorine gas and so on) may be occurred, if needed, use Gas mask and Goggles

6. Accidental release measures

Personal Precautions: Will not occur. Not specified
Protective equipment and emergency procedures: Will not occur. Not specified
Environmental precautions: Will not occur. Not specified
Methods and material for containment and cleaning up: Will not occur. Not specified
7. Handling and Storage

**Handling**
- **Technical measures:** None in particular
- **Local and general exhaust ventilation:** Not required for use in normal temperature
- **Precautions for safe handling:** Provide adequate ventilation when performing high-temperature processing
- **Remarks:** None in particular
- **Use caution and protective gloves to avoid cuts with edges of tape liners**

**Storage**
- **Technical measures:** None in particular
- **Storage conditions:** Store at room temperature and normal humidity away from direct sunlight
- **Storage conditions to avoid:** Avoid high temperature
- **Incompatible materials:** No information available
- **Conditions for safe storage, including any incompatibilities:** Shipping package

8. Exposure Controls/Personal Protection

**Control parameters**
- **Unset**
- **Permissible concentration**
- **Unset**
- **Appropriate engineering controls**
- **Not required**

**Personal protective equipment [PPE]**
- **Respiratory Protection**
- **Not required**
- **Hand protection**
- **Not required**
- **Eye protection**
- **Not required**
- **Skin protection**
- **Not required**

**General hygiene considerations**
- None under normal use conditions

9. Physical and Chemical Properties

**Physical state**
- **Solid**
- **Roll type**

**Color**
- **white**

**Odor**
- **None in particular**

**pH**
- **No data available**

**Melting point / Freezing point**
- **No data available**

**Boiling point**
- **No data available**

**Boiling point / boiling range**
- **No data available**

**Flash Point**
- **No data available**

**Autoignition temperature**
- **Upper**
  - **No data available**
- **Lower**
  - **No data available**

**Vapor pressure**
- **No data available**

**Vapor density**
- **No data available**

**Specific gravity**
- **approx 1.7**

**Solubility**
- **Insoluble in water**

**Partition Coefficient (n-octanol/water)**
- **No data available**

**Decomposition temperature**
- **No data available**

10. Stability and Reactivity

**Reactivity**
- Stable under normal conditions of use and storage

**Possibility of hazardous reactions**
- **No data available**

**Conditions to avoid**
- **None in particular**

**Incompatible materials**
- **No information available**

**Hazardous decomposition products**
- **No information available**

11. Toxicological Information

**Acute Toxicity**
- **No information available**

**Skin corrosion/irritation**
- **No information available**

**Serious eye damage/eye irritation**
- **No information available**

**Respiratory sensitization**
- **No information available**

**Germ cell mutagenicity**
- **No information available**

**Reproductive Toxicity**
- **No information available**

**Specification target internal organs/systemic toxicity (single exposure)**
- **No information available**

**Specification target internal**
- **No information available**
organs/systemic toxicity (repeat exposure)
Aspiration hazard: No information available

12. Ecological Information

Persistence and degradability
No information available
Bioaccumulation
No information available
Mobility in soil
No information available
Ozone depletion potential (ODP)
No information available

13. Disposal Considerations

Waste treatment methods
Disposal should be in accordance with applicable regional, national and local laws and regulations.
When burning it, use an incinerator which satisfies its technical guidelines (the residence time is 2 seconds or more at a temperature of 800 °C centigrade or more).
Contact an authorized industrial waste treatment company for off-site disposal.

Contaminated packaging
Package: Contact a recycling manufacture.

14. Transport Information

International regulations
Transport hazard class: Not Applicable
UN number: Not Applicable

Japanese regulation: Not Applicable

Special precautions in connection with transport or conveyance
Do not store in long term under high temperature or leave outdoors.

15. Regulatory information

Local regulation
Japanese regulation Fire Service Act: Designated flammable material (Synthetic resins: Other)

Foreign regulation
Contact NITTO for more information

REACH 7 Article 33 Article SVHC notification (> 0.1 wt. %)
Not Applicable

16. Other information

Creation date: 07-Jul-2014
Revision date: 20-Aug-2018
Version: 4

Key literature references and sources for data
JIS Z7253: 2012 Safety data sheet for chemical products -Content and order of sections
JIS Z 7252: 2009 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”

Disclaimer
Contents are based on documents, information and data which are available at this time, but nothing is guaranteed as regards content, physical and chemical properties, hazards.
Also precautions are subject to ordinary handling, so please take safety measures as usage in special cases.
The regulatory information presented here should not necessarily be considered as all-inclusive. Other local and international regulations may also apply.

End of Safety Data Sheet