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

Product name: DOUBLE-COATED ADHESIVE TAPE
Product identifier: TR-5912F
Product Code: P020-00013618-0000
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(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>Single Substance or Mixture</th>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acrylic adhesive</td>
<td>-</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Silicone coated polyester film (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)
                      : Extinguishing powder
                      : Water
                      : ABC-powder
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
Provide adequate ventilation when performing high-temperature processing
Precautions for safe handling
None in particular
Remarks
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
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
175 °C
Autoignition temperature
Rapid equilibrium method
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 Not Applicable
Foreign regulation Contact NITTO for more information
REACH 7 Article 33 Article SVHC notification (> 0.1 wt. %) Not Applicable

16. Other information
Creation date 22-May-2014
Revision date 23-Aug-2018
Version 6
Key literature references and sources for data
JIS Z 7252 : 2009 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"
JIS Z7253 : 2012 Safety data sheet for chemical products -Content and order of sections
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