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

Product name: Polyimide adhesive tape
Product identifier: NO360A
Product Code: P020-00030659-0000
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 electric insulation and protection

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>Article</td>
<td>Polyimide film</td>
<td>-</td>
<td>60-75</td>
</tr>
<tr>
<td></td>
<td>Acrylic adhesive</td>
<td>-</td>
<td>25-40</td>
</tr>
<tr>
<td></td>
<td>Long alkyl chain branched polymer (Release coating agent)</td>
<td>-</td>
<td>&lt;0.5</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
In the case of skin irritation or allergic reactions see a physician
Eye contact: Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
Ingestion: Immediately induce vomiting and then consult a doctor
Most important symptoms/effects, acute and delayed: No information available
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**
- **Precautions for safe handling:** None in particular

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**

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
- **Brown**

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
- **No data available**

Upper
- **No data available**

Lower
- **No data available**

Vapor pressure
- **No data available**

Vapor density
- **No data available**

Specific gravity
- **1.2 - 1.3**

Solubility
- **Insoluble in water**

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

Decomposition temperature
- **No data available**

Other Data
- **Flammability**

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

Specification target internal organs/systemic toxicity (single exposure)
- **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
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
06-Aug-2014

Revision date
14-Jan-2019

Version
3

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