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

Product name: PET adhesive tape
Product identifier: NO3161FR1 75 White
Product Code: P020-00030556-0025
Supplier Address: Nitto Denko Corporation Toyohashi Plant
18, Hirayama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan
TEL.+81-532-41-7242, FAX. +81-532-41-7284
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

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

3. Composition/information on Ingredients

Single Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Concentration or concentration ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic resin</td>
<td>-</td>
<td>45-55</td>
</tr>
<tr>
<td>Polyethylene terephthalate</td>
<td>25038-59-9</td>
<td>40-50</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>1309-64-4</td>
<td>3-5</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>2-4</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: In the case of skin irritation or allergic reactions see a physician
Eyes: Peel slowly, then rinse in water
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: 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: Water
Prohibited media: ABC-powder
Extinguishing powder
Special exposure hazards in a fire: No information available
Carbon dioxide (CO2)
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

Treatment
- Technical measures: None in particular
- Local and general exhaust ventilation: Not required for use in normal temperature
- Remarks: None in particular
- Precautions for safe handling: Persons with sensitive skin may develop a rash from exposure to this product. Do not allow its adhesive to touch your skin

Storage
- Technical measures: None in particular
- Storage Conditions: Store at room at room temperature and normal humidity away from direct sunlight
- Storage conditions to avoid: Avoid high temperature
- Incompatible materials: No data 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: Roll type
- Solid
- Paint: 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
- Specific gravity: approx 1.2
- Solubility: Insoluble in water
- Partition coefficient: 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: No information available
- Incompatible materials: No data 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
- Carcinogenicity: No information available
- Reproductive Toxicity: No information available
- Specification target internal organs/systemic toxicity (single): No information available
12. Ecological Information

- **Persistence and degradability**: No information available
- **Bioaccumulation**: No information available
- **Mobility**: 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. Contact an authorized industrial waste treatment company for off-site disposal. Do not incinerate. Incinerating the product may produce fumes or odors. The product should be disposed of by a certified disposal contractor.
- **Contaminated packaging**: Contact a recycling manufacturer.

14. Transport Information

- **National regulations**: Transport hazard class Not Applicable. UN/ID-Nr 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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony trioxide</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

16. Other information

- **Issue date**: 19-Sep-2014
- **Date prepared**: 08-Jun-2016
- **Version**: 2
- **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.

End of Material Safety Data Sheet