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

(a) **Product name:**
PTFE Tape

(b) **Other means of identification**
Product Code
P627-00017

(c) **Recommended Use**
High temperature resistant, high dielectric strength adhesive tape
For electric insulation and protection
Applications include electrical and aerospace

(d) **Supplier Address**
Nitto, Inc.
1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.
TEL.+1-732-901-7905  FAX.+1-732-901-9354

**Emergency telephone number**
+1-732-901-7905 (Nitto, Inc.)

2. Hazards Identification

(a) **GHS - Classification**
Not applicable for article

(b) **Label elements**
Not Applicable

Physical State:
Solid

Odor:
Slight

3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Product Classification</th>
<th>Chemical name</th>
<th>CAS No</th>
<th>Concentration or concentration ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTICLE</td>
<td>Polytetrafluoroethylene 9002-84-0</td>
<td>60-70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silicone adhesive</td>
<td>- 30-40</td>
<td></td>
</tr>
</tbody>
</table>

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

4. First aid measures

(a) **General information**

- **If inhaled**
  Not expected

- **Eyes**
  Call a physician immediately

- **Skin**
  Wash off immediately with soap and plenty of water
  In the case of skin irritation or allergic reactions see a physician

- **Ingestion**
  Get immediate medical advice/attention

(b) **Most important symptoms/effects, acute and delayed:**
  No information available

(c) **Self-protection of the first aider**
  Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

- **Note to physicians**
  No information available

5. Fire-fighting measures

(a) **Fire extinguishing agent**
  Dry chemical, CO2, water spray or regular foam

- **Prohibited media**
  No information available

(b) **Special exposure hazards in a fire**
  No information available

- **Hazardous combustion products**
  No information available

- **Explosion data**
  No information available

- **Sensitivity to Mechanical Impact**
  No information available
Sensitivity to Static Discharge
No information available

(c) Special protective equipment and precautions for firefighters
In the event of fire, wear self-contained breathing apparatus
Use personal protective equipment as required

6. Accidental release measures

(a) Personal Precautions:
Protective equipment and emergency procedures
Avoid contact with eyes and skin
Protective gloves and safety glasses recommended

(b) Environmental precautions:
Collect spillage
Prevent product from entering drains
Keep out of waterways

(c) Methods and material for containment and cleaning up
Should not be released into the environment

7. Handling and Storage

(a) Precautions for safe handling
Protective gloves and safety glasses recommended

(b) Storage Conditions
Store at room temperature and normal humidity away from direct sunlight

8. Exposure Controls/Personal Protection

(a) Control parameters
other information:
None under normal use conditions

(b) Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas

(c) Personal protective equipment [PPE]
Respiratory Protection:
None under normal use conditions
Hand Protection:
Wear non-permeable gloves
Skin protection:
Wear protective gloves and protective clothing

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

(a) Physical State:
Solid

(b) Odor:
Gray

(d) pH:
Slight

(e) Melting point / Freezing point:
No data available

(f) Boiling point / boiling range:
Not Applicable

(g) Flash Point:
No data available

(h) Evaporation rate:
No data available

(i) Flammability (solid, gas):
Non-flammable solid

(k) vapor pressure:
Not Applicable

(l) Vapor density:
Not Applicable

(m) Specific gravity:
No data available

(n) Solubility:
Insoluble in water

(o) Partition coefficient:
No data available

(p) Autoignition temperature:
No data available

(q) decomposition temperature:
No data available

(r) Kinematic viscosity:
No data available

(s) molecular weight:
No data available

9.2. other information:

10. Stability and Reactivity

(a) Reactivity:
Stable under normal conditions

(b) Chemical stability:
Stable under normal conditions

(c) Possibility of Hazardous Reactions:
No data available
(d) Conditions to avoid
No information available

(e) Incompatible materials:
PTFE may decompose to hazardous decomposition products at temperatures above 400 °C
Thermal decomposition can lead to release of irritating and toxic gases and vapors

(f) Hazardous decomposition products:

11. Toxicological Information

(a) Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Inhalation of the micro particles from heating item above melting point or above 260°C may cause polymer fume fever</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Not an expected route of exposure May cause respiratory irritation to sensitive individuals</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation to sensitive individuals</td>
</tr>
<tr>
<td>Eyes</td>
<td>No information available</td>
</tr>
</tbody>
</table>

(b) Most important symptoms/effects, acute and delayed:
No information available

(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No information available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No information available</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>No information available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available on finished product</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>No data available on finished product</td>
</tr>
<tr>
<td>Specification target internal organs/systemic toxicity (single exposure)</td>
<td>No data available on finished product</td>
</tr>
<tr>
<td>Specification target internal organs/systemic toxicity (repeat exposure)</td>
<td>No data available on finished product</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

(d)  
No information available

(e) Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen

12. Ecological Information

(a) Ecotoxicity
No data available on finished product

(b) Persistence and degradability
No data available on finished product

(c) Bioaccumulation
No data available on finished product

(d) Bioaccumulation
No data available on finished product

(e) Other adverse effects
Ozone depletion potential (ODP): Stable under normal conditions

13. Disposal Considerations

Waste treatment methods

Disposal of wastes
Dispose of in accordance with federal, state and local regulations. The Customer is responsible for the proper disposal of any waste generated as a result of the use of the Product or of the Product itself, and is responsible for complying with all applicable laws, rules and regulations relating to the management, storage, treatment, shipment and disposal of such waste or Product ("Waste Management Practices"). "Product" includes anything sold by Nitto Denko Corporation and/or any affiliates or subsidiaries ("Company") to Customer. The Company is not responsible for any of the Customer's Waste Management Practices. As part of those practices, Customer must separate packaging from Product before disposal. Further, Customer should review and comply with this SDS prior to any such disposal. Customer shall hold harmless the Company, its agents, contractors, successors and assigns from any and all liability, claims, loss, damage, death or injury, including reasonable attorneys fees and costs, arising out of or relating to Customer's Waste Management Practices.

Contaminated packaging disposal considerations
Should not be released into the environment

14. Transport Information

DOT(U.S. Department of Transportation) Not regulated
(HMTA)
UN/ID-Nr Not Applicable
UN Proper Shipping Name Not regulated
Transport hazard class Not Applicable
Packing group, if applicable Not Applicable
(e) Environmental hazards Not Applicable
(Applicable/not applicable)
(f) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code (Applicable/Not applicable)
Special precautions in connection with transport or conveyance Store in a cool area away from heat
TDG: Not regulated
MEX (Transport is specifically for Mexico) Not regulated
ICAO (air) Not regulated
IATA: Not regulated
IMDG: Not regulated
UN/ID-Nr Not Applicable
UN Proper Shipping Name Not regulated
Transport hazard class Not Applicable
Special precautions in connection with transport or conveyance Store in a cool area away from heat
RID (Regulations concerning the International Carriage of Dangerous Goods by Rail) Not regulated
ADR : (European Agreement concerning International Carriage of Dangerous Goods by Road) Not regulated
ADN Technical Name Not regulated

15. Regulatory information

US Federal Regulations
SARA 313 Not Applicable

US State Regulations
California Proposition 65 Not Applicable
* This product will not contain compounds in particulate (respirable) form under normal conditions.

U.S. State Right-to-Know Regulations Not Applicable

Global Inventories Not Applicable

REACH 7 Article 33 Article SVHC notification (> 0.1wt%) None based on the current SVHC listing, as of the date of this SDS.

16. Other information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td>0</td>
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</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal protective equipment</th>
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<tbody>
<tr>
<td></td>
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<td>0</td>
<td>X</td>
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</table>

Issue date: 18-May-2016
Date prepared 18-May-2016
Version 1
Source Information Raw material SDS
LOLI(Chem ADVISOR) GHS classification data

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End of Material Safety Data Sheet