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

(a) **Product name:** PTFE Tape  
**Product identifier:** P412

(b) **Other means of identification**  
**Product Code:** P627-00015

(c) **Recommended Use**  
Ribbon dope thread sealant

(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>ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical name</strong></td>
<td>Polytetrafluoroethylene</td>
</tr>
<tr>
<td><strong>CAS No</strong></td>
<td>9002-84-0</td>
</tr>
<tr>
<td><strong>Concentration or concentration ranges</strong></td>
<td>90-100</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  
- **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**  
- **Hazardous combustion products:** Above 275°C (527°F): PTFE can cause polymer fume fever. Above 400°C (750°F): Hydrogen Fluoride, Carbonyl Fluoride, Perfluoroisobutylene, Hydrocarbons, Aldehydes
- **Explosion data:** No information available
- **Sensitivity to Mechanical Impact:** No information available
6. Accidental release measures

(a) **Personal Precautions:**
- 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:**
- None under normal use conditions
- No information available

(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) **Paint:** white
(c) **Odor:** Slight
(d) **pH:** No data available
(e) **Melting point / Freezing point:** No information available
(f) **Boiling point / boiling range:** Not Applicable
- **boiling point:** Not Applicable
(g) **Flash Point:** No data available
(h) **Evaporation rate:** No data available
(i) **Flammability (solid, gas):** Non-flammable solid
(j) **Upper/lower flammability or explosive limits:**
- **Upper** Not Applicable
- **Lower** Not Applicable
(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

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:**
Thermal decomposition can lead to release of irritating and toxic gases and vapors

(f) **Hazardous decomposition products:**
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

11. **Toxicological Information**

(a) **Information on likely routes of exposure**
- **Inhalation**
  Not an expected route of exposure
- **Ingestion**
  Not an expected route of exposure May cause respiratory irritation to sensitive individuals
- **Skin**
  May cause skin irritation to sensitive individuals
- **Eyes**
  May cause eye irritation to sensitive individuals

(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**
- **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 data available on finished product
- **Reproductive Toxicity**
  No data available on finished product
- **Specification target internal organs/systemic toxicity (single exposure)**
  No data available on finished product
- **Specification target internal organs/systemic toxicity (repeat exposure)**
  No data available on finished product
- **Aspiration hazard**
  Not Applicable

(d) **Carcinogenicity**
Polytetrafluoroethylene 9002-84-0: IARC Group 3 Carcinogen *(Not classifiable as to its carcinogenicity to humans)*

12. **Ecological Information**

(a) **Ecotoxicity**
No data available on finished product

(b) **Mobility**
No data available on finished product

(c) **Persistence and degradability**
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. See Disposal of Wastes
- **Contaminated packaging**

14. **Transport Information**

**DOT (U.S. Department of Transportation)**
- **(HMTA)**
  Not regulated
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
(apply/not applicable)  Not Applicable
(f) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code (Applicable - Not 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 State Regulations  Not Applicable
California Proposition 65

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

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

16. Other Information

<table>
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<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>0</th>
<th>Flammability:</th>
<th>0</th>
<th>Instability:</th>
<th>0</th>
<th>Physical and Chemical Properties</th>
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</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards</td>
<td>0</td>
<td>Flammability:</td>
<td>0</td>
<td>Physical Hazards</td>
<td>0</td>
<td>Personal protective equipment</td>
</tr>
</tbody>
</table>

Issue date: 05-Jul-2016
Date prepared: 05-Jul-2016
Version: 1
Source Information: Raw material SDS
LOLI(Chem ADVISOR) GHS classification data

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End of Material Safety Data Sheet