

Issue date: 18-May-2016

Date prepared 18-May-2016

Version 1

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

- (a) Product name: PTFE Tape  
Product identifier P421
- (b) Other means of identification  
Product Code P627-00016
- (c) Recommended Use High temperature resistant, high dielectric strength adhesive tape . Uses include aerospace and electrical applications.
- (d) Supplier Address Nitto, Inc.  
1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.  
TEL.+1-732-901-7905 FAX.+1-732-901-9354
- Suppliers details (Plant) 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
- precautionary statements

## 3. Composition/information on Ingredients

Product Classification ARTICLE

<u>Chemical name</u>	<u>CAS No</u>	<u>Concentration or concentration ranges</u>
Polytetrafluoroethylene	9002-84-0	80-90
Silicone adhesive	-	10-20

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

## 4. First aid measures

- (a) General information
- If inhaled Will not occur
- Eyes Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
- Skin Wash off immediately with soap and plenty of water  
In the case of skin irritation or allergic reactions see a physician
- Ingestion Immediately induce vomiting and then consult a doctor
- (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**  
Prohibited media Dry chemical, CO<sub>2</sub>, water spray or regular foam  
No information available
- (b) Special exposure hazards in a fire**  
Hazardous combustion products No information available  
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
- 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 Use personal protective equipment as required  
Protective gloves and safety glasses recommended
- (b) Environmental precautions:** Prevent product from entering drains  
Keep out of waterways  
Dike to collect large liquid spills  
Should not be released into the environment
- (c) Methods and material for containment and cleaning up**

## 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  
No information available
- (b) Appropriate engineering controls** No information available
- (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  
paint Gray
- (b) (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

<u>(p) Autoignition temperature:</u>	No data available
<u>(q) decomposition temperature</u>	No data available
<u>(r) Kinematic viscosity</u>	No data available
<u>(s) molecular weight</u>	No data available
<u>9.2. other information:</u>	

## 10. Stability and Reactivity

<u>(a) Reactivity:</u>	Stable under normal conditions
<u>(b) Chemical stability</u>	Stable under normal conditions
<u>(c) Possibility of Hazardous Reactions</u>	No data available
<u>(d) Conditions to avoid</u>	No information available
<u>(e) Incompatible materials:</u>	No information available
<u>(f) Hazardous decomposition products:</u>	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

<u>(a) Information on likely routes of exposure</u>	
<u>Inhalation</u>	Inhalation of the micro particles from heating item above melting point or above 260°C may cause polymer fume fever
<u>Ingestion</u>	Not Applicable
<u>Skin</u>	May cause skin irritation to sensitive individuals
<u>Eyes</u>	No information available
<u>(b) Most important symptoms/effects, acute and delayed:</u>	No information available
<u>(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure</u>	
<u>Acute Toxicity</u>	No information available
<u>Skin corrosion/irritation</u>	No information available
<u>Serious eye damage/eye irritation</u>	No information available
<u>Respiratory sensitization</u>	No information available
<u>Germ cell mutagenicity</u>	No data available on finished product
<u>Reproductive Toxicity</u>	No data available on finished product
<u>Specification target internal organs/systemic toxicity (single exposure)</u>	No data available on finished product
<u>Specification target internal organs/systemic toxicity (repeat exposure)</u>	No data available on finished product
<u>Aspiration hazard</u>	Not Applicable
<u>(d)</u>	
<u>(e) Carcinogenicity</u>	The table below indicates whether each agency has listed any ingredient as a carcinogen

## 12. Ecological Information

<u>(a) Ecotoxicity</u>	No data available on finished product
<u>(b) Persistence and degradability</u>	No data available on finished product
<u>(c) Bioaccumulation</u>	No data available on finished product
<u>(d) Bioaccumulation</u>	No data available on finished product
<u>(e) Other adverse effects</u>	
<u>Ozone depletion potential (ODP):</u>	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

**Contaminated packaging disposal considerations**

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  
 Dispose of in accordance with federal, state and local regulations  
 Should not be released into the environment

**14. Transport Information**

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

**15. Regulatory information**

**US Federal Regulations**  
**SARA 313** Not Applicable

**US State Regulations** Not Applicable  
**California Proposition 65**

\* 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**

<u>NFPA</u>	<u>Health Hazards</u> 0	<u>Flammability:</u> 0	<u>Instability:</u> 0	<u>Physical and Chemical Properties</u> -
<u>HMIS</u>	<u>Health Hazards</u> 0	<u>Flammability:</u> 0	<u>Physical Hazards</u> 0	<u>Personal protective equipment</u> X

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

**Disclaimer**

Although the information in this document has been researched in good faith based on data available, Nitto, Inc. , makes no warranty, expressed or implied regarding the accuracy or completeness of the information contained herein and the results to be obtained from the application of this information. Each user of this material should review this information and determine applicability based on their specific application(s). For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product(s). In accordance with OSHA, this product is considered an article. 29 CFR 1910.1200 (b)(6)(v) exempts articles from the Hazard Communication requirements and therefore does not require that a Safety Data Sheet be provided for this product, however it is offered at the request of our customers

**End of Material Safety Data Sheet**