

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 P422
- (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

Product Classification ARTICLE

Chemical name	CAS No	Concentration or concentration ranges
Polytetrafluoroethylene	9002-84-0	60-70
Silicone adhesive	-	30-40

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: Avoid contact with eyes and skin
Protective equipment and emergency procedures 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
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
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

(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:	No information available
(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

<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 an expected route of exposure May cause respiratory irritation to sensitive individuals
<u>Skin</u>	May cause skin irritation to sensitive individuals
<u>Eyes</u>	No information available

(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

<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

(d)

(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	
<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 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

Dispose of in accordance with federal, state and local regulations

Should not be released into the environment

14. Transport Information

<u>DOT(U.S. Department of Transportation)</u>	Not regulated
<u>(HMTA)</u>	

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

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Source Information Raw material SDS
 LOLI(Chem ADVISOR) GHS classification data

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End of Material Safety Data Sheet