

Issue date 18-Feb-2017

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Version 1

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

- (a) Product name PTFE Tape
Product identifier P-424
- (b) Other means of identification
Product Code P627-00071
- (c) Recommended Use High & low temperature capabilities, high dielectric strength adhesive tape
 For electric insulation and protection; abrasion resistance; wear reduction on metal parts
 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
- (e) 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
- (c) Other Hazards Not Applicable
- (d) Numerical measures of toxicity (such as acute toxicity estimates) Not Applicable

3. Composition/information on Ingredients

Product Classification ARTICLE

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration or concentration ranges</u>
Silicone adhesive	-	45-55
Polytetrafluoroethylene	9002-84-0	45-55

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

4. First aid measures

- (a) General information
- If inhaled Not expected
- Eye contact Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
- Skin contact 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 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 Use personal protective equipment as required
Protective equipment and emergency procedures Protective gloves and safety glasses recommended
- (b) Environmental precautions 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
Other information 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
 (b) Color Gray
 (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

<u>(o) Partition Coefficient (n-octanol/water)</u>	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>	Not Applicable

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

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 an expected route of exposure May cause respiratory irritation to sensitive individuals
<u>Skin contact</u>	May cause skin irritation to sensitive individuals
<u>Eye contact</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) Unknown Acute Toxicity</u>	
Not Applicable	
<u>(e) Carcinogenicity</u>	
No data available on finished product	

12. Ecological Information

<u>(a) Ecotoxicity</u>	No data available on finished product
<u>(b) Mobility in soil</u>	No data available on finished product
<u>(c) Persistence and degradability</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 attorney's 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

DOT(U.S. Department of Transportation) Not regulated
(HMTA)
UN number Not Applicable
UN Proper Shipping Name Not regulated
Transport hazard class Not Applicable
Packing group, if applicable Not Applicable
Environmental hazards Not Applicable
(Applicable/Not applicable)
Transport in bulk according to Not Applicable
Annex II of MARPOL 73/78 and the
IBC Code
Special precautions in connection Store in a cool area away from heat
with transport or conveyance
TDG Not regulated
MEX(Transport is specifically for Mexico) Not regulated
ICAO (air) Not regulated
IATA Not regulated
IMDG Not regulated
UN number Not Applicable
UN Proper Shipping Name Not regulated
Transport hazard class Not Applicable
Special precautions in connection Store in a cool area away from heat
with transport or conveyance
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 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 None based on the current SVHC listing, as of the date of this SDS.
notification (> 0.1 wt. %)

16. Other information

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

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

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End of Safety Data Sheet