

Safety Data Sheet

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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.

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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 Slight Odor

3. Composition/information on Ingredients

Product Classification ARTICLE

Chemical name	CAS No	Concentration or concentration ranges	
Polytetrafluoroethylene	9002-84-0	90-100	

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

4. First aid measures

(a) General information

Not expected If inhaled

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

Get immediate medical advice/attention Ingestion

(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

Above 275°C (527°F): PTFE can cause polymer fume fever. Above 400 °C (750 °F): Hydrogen Hazardous combustion products

Fluoride, Carbonyl Fluoride, Perfluoroisobutylene, Hydrocarbons, Aldehydes

Explosion data No information available Sensitivity to Mechanical Impact

No information available

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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

6. Accidental release measures

(a) Personal Precautions: Avoid contact with eyes and skin

<u>Protective equipment and</u> Protective gloves and safety glasses recommended <u>emergency procedures</u>

(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

other information: 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) Paintwhite(c) OdorSlight

(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 Not Applicable (k) vapor pressure (I) Vapor density: Not Applicable No data available (m) Specific gravity Insoluble in water (n) Solubility No data available Partition coefficient: No data available Autoignition temperature: No data available decomposition temperature No data available (r) Kinematic viscosity (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

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Conditions to avoid No information available

Incompatible materials: No information available

(f) Hazardous decomposition products: Thermal decomposition can lead to release of irritating and toxic gases and vapors

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

Information on likely routes of exposure

Not an expected route of exposure Inhalation

Not an expected route of exposure May cause respiratory irritation to sensitive individuals Ingestion

Skin May cause skin irritation to sensitive individuals May cause eye irritation to sensitive individuals Eyes

(b) Most important symptoms/effects, No information available

acute and delayed:

(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 No data available on finished product

organs/systemic toxicity (single exposure)

Specification target internal

organs/systemic toxicity (repeat

exposure)

Not Applicable Aspiration hazard

(d) Carcinogenicity

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

No data available on finished product

12. Ecological Information

No data available on finished product (a) Ecotoxicity (b) Mobility No data available on finished product (c) Persistence and degradability No data available on finished product Bioaccumulation No data available on finished product 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 See Disposal of Wastes

14. Transport Information

Not regulated

DOT(U.S. Department of Transportation)

(HMTA)

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UN/ID-NrNot ApplicableUN Proper Shipping NameNot regulatedTransport hazard classNot ApplicablePacking group, if applicableNot Applicable(e) Environmental hazardsNot Applicable

(Applicable/not applicable)

(f) Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code (Applicable · Not

applicable)

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/ID-Nr 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 Not regulated

International Carriage of Dangerous

Goods by Rail)

ADR: (European Agreement concerning Not regulated

International Carriage of Dangerous

Goods by Road)

ADN Technical Name Not regulated

15. Regulatory information

US State Regulations

California Proposition 65

Not Applicable

<u>U.S. State Right-to-Know Regulations</u> 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

NFPA	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 Material Safety Data Sheet