

Safety Data Sheet

Creation date 26-May-2016 Revision date 12-Jun-2019 Version 2

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

Polyimide adhesive tape (a) Product name

Product identifier P224

(b) Other means of identification

Product Code P777-627-00035

(c) Recommended Use High temperature resistant, high dielectric strength adhesive tape

For electric insulation and protection

(d) Supplier Address Nitto, Inc.

1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.

TEL.+1-732-901-7905 FAX.+1-732-364-4985

(e) Emergency telephone number +1-732-901-7905 (Nitto, Inc.)

2. Hazards Identification

(a) GHS - Classification Not applicable for article

Label elements Not Applicable

Physical state Solid Odor Slight

(c) Other Hazards Not Applicable

3. Composition/information on Ingredients

Product Classification Article

Chemical name	CAS No.	Weight-%
Acrylic adhesive	-	55-65
Polyimide	25038-81-7	35-45

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

Eye contact Call a physician immediately

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

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

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Sensitivity to Mechanical Impact

No information available

Sensitivity to Static Discharge Yes. This film is subject to generation of static during processing. Use precautions of static charge

during processing and when removing plastic films used as protective packaging

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

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

None under normal use conditions Control parameters

Other information No information available

(b) Appropriate engineering controls Ensure adequate ventilation, especially in confined areas

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 amber Odor Slight (c)

(d) pH No data available (e) Melting point / Freezing point No information available

Boiling point / boiling range Not Applicable boiling point Not Applicable Flash Point No data available **Evaporation rate** No data available (i) Flammability (solid, gas) Non-flammable solid

(j) Upper flammability limit

Not Applicable Upper Lower Not Applicable Vapor pressure Not Applicable (I) Vapor density Not Applicable (m) Specific gravity No data available Solubility Insoluble in water **Partition Coefficient** No data available

(n-octanol/water)

(p) Autoignition temperature No data available (q) Decomposition temperature No data available Kinematic viscosity No data available Molecular weight No data available

9.2 Other information Not Applicable

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

Carbon dioxide (CO2) Carbon monoxide

11. Toxicological Information

(a) Information on likely routes of exposure

<u>Inhalation</u> Not an expected route of exposure

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

Skin contact May cause skin irritation to sensitive individuals Eye contact May cause eye irritation to sensitive individuals

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

acute and delayed

No data available on finished product

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 No information available Serious eye damage/eye irritation 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)

Aspiration hazard Not Applicable

(d) Unknown Acute Toxicity Not Applicable

No data available on finished product (e) Carcinogenicity

12. Ecological Information

(a) Ecotoxicity No data available on finished product

Mobility in soil 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

<u>Disposal of wastes</u>

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 attorney's fees and costs,

arising out of or relating to Customer's Waste Management Practices

<u>Contaminated packaging</u> Dispose of in accordance with federal, state and local regulations

<u>Disposal considerations</u> 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 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

This product will not contain compounds in particulate (respirable) form under normal conditions

Global Inventories 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.

1224, Nitto, III. 1777-00000 OSAAT LIV

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 Safety Data Sheet