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

(a) **Product name**
- Polyimide adhesive tape

(b) **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, NJ 08701, 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

(b) **Label elements**
- Not Applicable

- **Physical state**
- Solid

- **Odor**
- Slight

(c) **Other Hazards**
- Not Applicable

3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic adhesive</td>
<td>-</td>
<td>55-65</td>
</tr>
<tr>
<td>Polyimide</td>
<td>25038-81-7</td>
<td>35-45</td>
</tr>
</tbody>
</table>

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

(a) **Fire extinguishing agent**
- Dry chemical, CO2, water spray or regular foam
- No information available

(b) **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
6. Accidental release measures

(a) **Personal Precautions**
- 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

(a) **Control parameters**
- 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

(b) **Color**
- Amber

(c) **Odor**
- Slight

(d) **pH**
- No data available

(e) **Melting point / Freezing point**
- No information available

(f) **Boiling point / boiling range**
- Not Applicable
- Not Applicable

(g) **Flash Point**
- No data available

(h) **Evaporation rate**
- No data available

(i) **Flammability (solid, gas)**
- Non-flammable solid

(j) **Upper flammability limit**
- Upper
- Lower
- Not Applicable
- 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
- Not Applicable
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

Inhalation
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, acute and delayed
No information available

(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 organs/systemic toxicity (single exposure)
No data available on finished product

Specification target internal organs/systemic toxicity (repeat exposure)
No data available on finished product

Aspiration hazard
Not Applicable

(d) Unknown Acute Toxicity
Not Applicable

(e) Carcinogenicity
No data available on finished product

12. Ecological Information

(a) Ecotoxicity
No data available on finished product

(b) 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**

**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 attorney's fees and costs, arising out of or relating to Customer's Waste Management Practices.

**Contaminated packaging**

Dispose of in accordance with federal, state and local regulations

**Disposal considerations**

Should not be released into the environment

14. Transport Information

**DOT(U.S. Department of Transportation)**

*Not regulated*

**HMTA**

*Not regulated*

**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**

*Not Applicable*

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

*Not Applicable*

**Special precautions in connection with transport or conveyance**

*Store in a cool area away from heat*

**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 with transport or conveyance**

*Store in a cool area away from heat*

**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 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.
### 16. Other information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
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<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal protective equipment</th>
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<td>0</td>
<td>X</td>
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</table>

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**Revision date**: 12-Jun-2019  
**Version**: 2  
**Source Information**: Raw material SDS, LOLI (Chem ADVISOR) GHS classification data

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End of Safety Data Sheet