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

(a) **Product name**
Polyimide film Silicone double-coated adhesive tape

(b) **Product identifier**
P-223

(c) **Other means of identification**
Product Code
P627-00049

(d) **Recommended Use**
Bonding agent
Combined laminating product for electricity

(e) **Supplier Address**
Nitto, Inc.
1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.
TEL.+1-732-901-7905  FAX.+1-732-901-9354

(f) **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

<table>
<thead>
<tr>
<th>Product Classification</th>
<th>Chemical name</th>
<th>CAS No</th>
<th>Concentration or concentration ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTICLE</td>
<td>Silicone adhesive</td>
<td>-</td>
<td>65-75</td>
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<tr>
<td></td>
<td>Polyimide</td>
<td>25038-81-7</td>
<td>25-35</td>
</tr>
<tr>
<td></td>
<td>Dibutyltin diacetate</td>
<td>1067-33-0</td>
<td>&lt;0.1</td>
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</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

Prohibited media

Dry chemical, CO2, water spray or regular foam
No information available

(b) Special exposure hazards in a fire
Hazardous combustion products
Explosion data
Sensitivity to Mechanical Impact
Sensitivity to Static Discharge

No information available
No information available
No information available
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

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

(a) Control parameters

None under normal use conditions

(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

(g) Flash Point

Not Applicable

(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
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

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) 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
Dispense 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
Dispense of in accordance with federal, state and local regulations.

14. Transport Information

DOT (U.S. Department of Transportation) (HMTA)
- UN number: Not Applicable
- UN Proper Shipping Name: Not regulated
- Transport hazard class: Not Applicable
- Packing group, if applicable: Not Applicable
- Environmental hazards (Applicable/Not applicable): Not Applicable
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Store in a cool area away from heat
- Special precautions in connection with transport or conveyance: Store in a cool area away from heat

TDG
- 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

MEX (Transport is specifically for Mexico)
- 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

ICAO (air)
- 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

IATA
- 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

IMDG
- 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)
- 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

ADR (European Agreement concerning International Carriage of Dangerous Goods by Road)
- 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

ADN Technical Name
- Not regulated

15. Regulatory information

US State Regulations
- California Proposition 65: This product does not contain any Proposition 65 chemicals.
- 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 (> 0.1 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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<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal protective equipment</th>
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**Issue date** 19-May-2016  
**Date prepared** 18-Apr-2017  
**Version** 2  
**Source Information** Raw material SDS LOLI(Chem ADVISOR) GHS classification data

**Disclaimer**

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In accordance with OSHA, this product is considered an article. 29 CFR 1910.1200 (b)(6)(v) exempts articles from the Hazard Communication requirements and therefore does not require that a Safety Data Sheet be provided for this product, however it is offered at the request of our customers.

**End of Safety Data Sheet**