1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Styrene-IR double-coated adhesive tape
Product Identifier: VR-5000
Product code: P020-00013681-0000
Supplier Address: Nitto Denko Corporation Toyohashi Plant
18, Hirayama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan
TEL.+81-532-41-7242, FAX. +81-532-41-7284
Department responsible: Quality Management Dept. Administration Div.
Emergency Telephone Number: +81-532-41-1121 (TOYOHASHI PLANT)
Recommended Use: For fixing rubber parts

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Single Substance or Mixture</th>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Concentration or concentration ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>article</td>
<td>Styrene-Isoprene copolymer</td>
<td>85-95</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cellulose (Nonwoven fabric)</td>
<td>9004-34-6</td>
<td>5-15</td>
</tr>
<tr>
<td></td>
<td>Cellulose (Release liner)</td>
<td>9004-34-6</td>
<td>-</td>
</tr>
</tbody>
</table>

* The exact percentage (concentration) of composition has been withheld as a trade secret
* "Non-woven fabric" is classified under a law called Customs Act of Fixed Rate Chapter 48 "Paper and paperboard: articles of paper pulp, of paper or of paperboard).

4. FIRST AID MEASURES

IF INHALED: Will not occur

skin: Wash with plenty of water and soap

Eyes: In the case of skin irritation or allergic reactions see a physician

Ingestion: Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary.

Most important symptoms/effects, acute and delayed: No information available

Self-protection of the first aider: No information available

Note to physicians: No information available

4. FIRST AID MEASURES

5. FIRE-FIGHTING MEASURES

Fire extinguishing agent: Bags of water, ABC multi-purpose extinguisher, powder extinguisher, CO2 extinguisher

Prohibited media: No information available

Special exposure hazards in a fire: No information available

Specific extinguishing methods: No information available

Advice for firefighters: Wear full protective clothing and self-contained breathing apparatus with full face-piece as needed.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Will not occur. Not specified.

Protective equipment and emergency procedures: Will not occur. Not specified.

Environmental Precautions: Will not occur. Not specified.

Methods and materials for containment and cleaning up: Will not occur. Not specified.

7. HANDLING AND STORAGE
Handling
Technical measures: None in particular
Local and general exhaust ventilation: Not required for use in normal temperature.
Comments: Provide adequate ventilation when performing high-temperature processing.
Precautions for safe handling: Use caution and protective gloves to avoid cuts with edges of tape liners

Storage
Technical measures: None in particular
Storage Conditions: Store at room temperature and normal humidity away from direct sunlight
Storage conditions to avoid: Avoid high temperature
Incompatible Materials: No data available
Conditions for safe storage, including any incompatibilities: Shipping package

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Unset
Permissible concentration
Unset
Appropriate engineering controls
Not required

Personal protective equipment [PPE]
Respiratory Protection: Not required
Hand Protection: Not required
Eye protection: Not required
Skin protection: Not required

Hygiene considerations:
Normally not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Roll type
Color
light yellow
Odor
None in particular
pH
No data available
melting/freezing point
No data available
Boiling Point
No data available
Boiling point / boiling range
No data available
Flash point:
No data available
Autoignition Temperature:
No data available
Upper
No data available
Lower
No data available
Vapor Pressure
No data available
Vapor density:
No data available
specific gravity
approximately 1.0
solubility
Insoluble in water
Partition coefficient:
No data available
Decomposition temperature
No data available

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions of use and storage
Possibility of hazardous reactions
No data available
Conditions to avoid:
None in particular
Incompatible Materials:
No data available
Hazardous decomposition products:
No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
No information available
Skin corrosion/irritation
No information available
Serious eye damage/eye irritation
No information available
Respiratory or Skin sensitization
No information available
Germ Cell Mutagenicity
No information available
Carcinogenicity
No information available
Reproductive Toxicity
No information available
Specification target internal organs/systemic toxicity (single exposure):
No information available
Specification target internal organs/systemic toxicity (repeat exposure):
No information available
Aspiration toxicity

No information available

12. ECOLOGICAL INFORMATION

Mobile

Persistence and degradability

Bioaccumulation

Ozone depletion potential (ODP):

No information available

No information available

No information available

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations

Contact an authorized industrial waste treatment company for off-site disposal

Contaminated packaging

Package: Contact a recycling manufacture.

14. TRANSPORT INFORMATION

National regulations

(c) Transport hazard class

(a) UN Number

Not applicable

Not applicable

Japanese regulations

Not applicable

(g) Special precautions in connection with transport or conveyance

Do not store in long term under high temperature and leave out field

15. REGULATORY INFORMATION

Local regulation:

Japanese regulation Fire Service Act: Designated flammable material (Synthetic resins: Other)

Foreign regulation

National regulations

Contact NITTO for more information.

REACH SVHC information

Not applicable

16. OTHER INFORMATION

Issue Date:

04-Sep-2014

Date prepared

18-Dec-2014

Version

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OTHER INFORMATION

The regulatory information presented here should not necessarily be considered as all-inclusive. Other local and international regulations may also apply.

Key literature references and sources for data

JIS Z 7252: 2009 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”

JIS Z7253: 2012 Safety data sheet for chemical products -Content and order of sections

Disclaimer

Contents are based on documents, information and data which are available at this time, but nothing is guaranteed as regards content, physical and chemical properties, hazards. Precautions are subject to ordinary handling; take safety measures as usage in special cases. Also precautions are subject to ordinary handling, so please take safety measures as usage in special cases.

End of Safety Data Sheet