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

**Product name**
NITOFOIL

**Product identifier**
AT-80

**Product Code**
P020-00038218-0000

**Supplier Address**
Nitto Denko Corporation Toyohashi Plant
18, Hiyama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan
TEL.+81-532-41-8461, FAX. +81-532-41-8064

**Department responsible**
Quality Management Dept. Administration Div

**Emergency telephone number**
+81-532-41-1121(TOYOHASHI PLANT)

**Recommended Use**
For heat insulation
For heat release
For electromagnetic shield
For moisture proofing

2. Hazards Identification

**GHS Classification**
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>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alminium foil</td>
<td>-</td>
<td>75-85</td>
</tr>
<tr>
<td></td>
<td>Acrylic adhesive</td>
<td>-</td>
<td>15-25</td>
</tr>
<tr>
<td></td>
<td>Silicone coated paper (Release liner)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

4. First aid measures

**If inhaled**
Will not occur

**Skin contact**
Peel slowly, then rinse in water
In the case of skin irritation or allergic reactions see a physician

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

**Ingestion**
Immediately induce vomiting and then consult a doctor

**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

5. Fire-fighting measures

**Fire extinguishing agent**
Water
ABC-powder
Extinguishing powder
Carbon dioxide (CO2)

**Prohibited media**
No information available

**Special exposure hazards in a fire**
No information available

**Specific extinguishing methods**
No information available

**Advice for fire-fighters**
Due to poisonous gas (chlorine gas and so on) may be occurred, if needed, use Gas mask and Goggles

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 material for containment**
Will not occur. Not specified
and cleaning up.

7. Handling and Storage

Handling

Technical measures:
None in particular

Local and general exhaust ventilation
Not required for use in normal temperature

Precautions for safe handling
Provide adequate ventilation when performing high-temperature processing

Remarks
Take caution and use protective gloves to avoid cuts with edge of backing or release liner

Storage

Technical measures:
None in particular

Storage conditions
Store at room at room temperature and normal humidity away from direct sunlight

Storage conditions to avoid
Avoid high temperature
Avoid storage in high temperatures and high humidity

Incompatible materials
No data available

Conditions for safe storage, including any incompatibilities
Shipping package

8. Exposure Controls/Personal Protection

Control parameters
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

General hygiene considerations
None under normal use conditions

9. Physical and Chemical Properties

Physical state
Roll type
Solid

Color
Silver

Odor
None in particular

pH
No data available

Melting point / Freezing point
No data available

Boiling point
No data available

Boiling point / boiling range
No data available

Flash Point
No data available

Autoignition temperature
Upper
No data available

Lower
No data available

Vapor pressure
No data available

Specific gravity
Insoluble in water

approx 2.1

Solubility
Insoluble in water

Partition Coefficient (n-octanol/water)
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
No information available

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 sensitization
No information available

Germ cell mutagenicity
No information available

Reproductive Toxicity
No information available

Specification target internal organs/systemic toxicity (single
No information available

12. Ecological Information

- **Persistence and degradability**: No information available
- **Bioaccumulation**: No information available
- **Mobility in soil**: No information available
- **Ozone depletion potential (ODP)**: 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**: Contact a recycling manufacture

14. Transport Information

- **International regulations**: Not Applicable
  - **Transport hazard class**: Not Applicable
  - **UN number**: Not Applicable
- **Japanese regulation**: Not Applicable
  - **Special precautions in connection with transport or conveyance**: Do not store in long term under high temperature or leave outdoors

15. Regulatory information

- **Local regulation**: Japanese regulation Fire Service Act: Designated flammable material (Synthetic resins: Other)
- **Foreign regulation**: Contact NITTO for more information
- **REACH 7 Article 33 Article SVHC notification (> 0.1 wt. %)**: Not Applicable

16. Other information

- **Creation date**: 10-Jul-2014
- **Revision date**: 14-Jan-2019
- **Version**: 4
- **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.

Also precautions are subject to ordinary handling, so please take safety measures as usage in special cases.

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

**End of Safety Data Sheet**