

Creation date 10-Jul-2014

Revision date 14-Jan-2019

Version 4

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

Product name NITOFoil

Product identifier AT-50

Product Code P020-00038203-0000

Supplier Address Nitto Denko Corporation Toyohashi Plant
18, Hirayama, 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
Classification of the substance or mixture Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

3. Composition/information on Ingredients

| Single Substance or Mixture | Article | CAS No. | Weight-% |
|---------------------------------------|---------|---------|----------|
| Aluminium foil | | - | 70-80 |
| Acrylic adhesive | | - | 20-30 |
| Silicone coated paper (Release liner) | | - | - |

* 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

Eye contact In the case of skin irritation or allergic reactions see a physician
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

| | |
|--|--|
| <u>Technical measures:</u> | None in particular |
| <u>Local and general exhaust ventilation</u> | Not required for use in normal temperature |
| <u>Precautions for safe handling</u> | Provide adequate ventilation when performing high-temperature processing |
| <u>Remarks</u> | None in particular Take caution and use protective gloves to avoid cuts with edge of backing or release liner |

Storage

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

8. Exposure Controls/Personal Protection

| | |
|--|----------------------------------|
| <u>Control parameters</u> | Unset |
| <u>Permissible concentration</u> | Unset |
| <u>Appropriate engineering controls</u> | Not required |
| <u>Personal protective equipment [PPE]</u> | |
| <u>Respiratory Protection</u> | Not required |
| <u>Hand protection</u> | Not required |
| <u>Eye protection</u> | Not required |
| <u>Skin protection</u> | Not required |
| <u>General hygiene considerations</u> | None under normal use conditions |

9. Physical and Chemical Properties

| | |
|--|--------------------|
| <u>Physical state</u> | Roll type Solid |
| <u>Color</u> | Silver |
| <u>Odor</u> | None in particular |
| <u>pH</u> | No data available |
| <u>Melting point / Freezing point</u> | No data available |
| <u>boiling point</u> | No data available |
| <u>Boiling point / boiling range</u> | No data available |
| <u>Flash Point</u> | No data available |
| <u>Autoignition temperature</u> | No data available |
| <u>Upper</u> | No data available |
| <u>Lower</u> | No data available |
| <u>Vapor pressure</u> | No data available |
| <u>Specific gravity</u> | approx 1.9 |
| <u>Solubility</u> | Insoluble in water |
| <u>Partition Coefficient (n-octanol/water)</u> | No data available |
| <u>Decomposition temperature</u> | No data available |

10. Stability and Reactivity

| | |
|---|---|
| <u>Reactivity</u> | Stable under normal conditions of use and storage |
| <u>Possibility of hazardous reactions</u> | No data available |
| <u>Conditions to avoid</u> | No information available |
| <u>Incompatible materials</u> | No data available |
| <u>Hazardous decomposition products</u> | No information available |

11. Toxicological Information

| | |
|---|--------------------------|
| <u>Acute Toxicity</u> | No information available |
| <u>Skin corrosion/irritation</u> | No information available |
| <u>Serious eye damage/eye irritation</u> | No information available |
| <u>Respiratory sensitization</u> | No information available |
| <u>Germ cell mutagenicity</u> | No information available |
| <u>Reproductive Toxicity</u> | No information available |
| <u>Specification target internal organs/systemic toxicity (single</u> | No information available |

| | |
|---|--------------------------|
| <u>exposure)</u> | |
| <u>Specification target internal organs/systemic toxicity (repeat exposure)</u> | No information available |
| <u>Aspiration hazard</u> | No information available |

12. Ecological Information

| | |
|--|--------------------------|
| <u>Persistence and degradability</u> | No information available |
| <u>Bioaccumulation</u> | No information available |
| <u>Mobility in soil</u> | No information available |
| <u>Ozone depletion potential (ODP)</u> | No information available |

13. Disposal Considerations

| | |
|--------------------------------|---|
| <u>Waste treatment methods</u> | Disposal should be in accordance with applicable regional, national and local laws and regulations |
| <u>Contaminated packaging</u> | Contact an authorized industrial waste treatment company for off-site disposal Contact a recycling manufacture |

14. Transport Information

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

15. Regulatory information

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

16. Other information

| | |
|---|---|
| <u>Creation date</u> | 10-Jul-2014 |
| <u>Revision date</u> | 14-Jan-2019 |
| <u>Version</u> | 4 |
| <u>Key literature references and sources for data</u> | 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