

SAFETY DATA SHEET

Date Prepared : 09/07/2017
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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trial Product name : **ALB7620** (Electrically conductive Film with adhesive)
Manufacturer : Dexerials Corporation
Address : 1724 Shimotsuboyama, Shimotsuke-shi, Tochigi 323-0194, Japan
Phone : +81-285-39-7950 Fax : +81-285-47-3242

SECTION 2. HAZARDS IDENTIFICATION

Classification of hazardous

Not applicable

Emergency overview

There is no special hazard in the normal use of this product.

Contact with adhesive face may cause irritation.

It is recommended to wear suitable protective gloves.

Ventilate if smells at working area.

Potential health effects

Skin/Eyes contact

Direct contact to adhesive layer may cause irritation and skin sensitization.

Ingestion/Inhalation

Breathe in smell of product may cause headache, nausea, and irritation to respiratory system.

Chronic effects/Carcinogenicity

None has known as product.

Nickel powder and Carbon Black are listed as a potential carcinogen by IARC.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTSComponents (% Chemical component by WT.)

1. Composite Film

Substance	CAS#	Concentration
Carbone Black	1333-86-4	1~10%
Aluminium	7429-90-5	70~80%
Polyester Resin	Trade Secret	10~20%
Silica	112926-00-8	<1%
Polyethylene terephthalate film	25038-59-9	1~10%

2. Pressure sensitive adhesive

Substance	CAS#	Concentration
Nickel Powder	7440-02-0	7.3%
Carbon Black	1333-86-4	1~10%
Acrylic polymer	Trade Secret	70~80%
Tackifier	Trade Secret	1~10%
Others	Trade Secret	1~10%

3. Release liner

Substance	CAS#	Concentration
Polyethylene terephthalate film Coated with Silicone release Agents	25038-59-9 (As PET film)	100%

SECTION 4. FIRST AID MEASURESInhalation

Remove to fresh air if feel ill by smell of product.

If the condition of a disease continues or getting worse, seek medical attention.

Eye contact

In case of contact with eyes, rinse immediately with plenty of water.

If irritation persists, seek medical attention.

Skin contact

Flush with large amounts of water. Use soap if available.

If irritation persists, seek medical attention.

Ingestion

As supplied, product is a solid material and would not in practice be ingested.

SECTION 5. FIRE-FIGHTING MEASURESExtinguish media

Water spray, Carbon dioxide, Dry chemical powder or Foam

Prohibited Extinguishing media

No information

Firefighting instruction

Wear positive pressure, self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Evacuate area and fight fire from a safe distance.

SECTION 6. ACCIDENTAL RELEASE MEASURES

As supplied, product is a solid material and would not in practice be released.

SECTION 7. HANDLING AND STORAGE

Handling

Protection gear may not be required in particular in the normal use of this product.

It is recommended to wear suitable protective gloves in the case of direct contact with the adhesive face.

Storage

Store in a cool and dark place.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls

Not required in particular.

Personal protection

Protective gloves : Wear impervious gloves (polyethylene, nitrile rubber) when contact with the adhesive face.

Protective glasses : Not required in particular.

Protective clothes : Not required in particular.

Exposure guideline

No data as product

Control value

(Nickel) : Japan control value = < 0.1 mg/m³

Adopted value

(Nickel) : JCGIH TLV- TWA: 1 mg/m³

(Nickel) : [ACGIH] TLV- TWA: 1 mg/m³

(Carbon Black) : [ACGIH] TLV-TWA: 3.5 mg/m³

As far as this mixture is concerned, Nickel Powder and Carbon Black can be little possibility to be inhaled because it is mixed in and not powdery.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Electrically conductive Film with Adhesive

Odor : No odor

Boiling point : No data available

Vapor pressure : No data available.

Melting point : No data available

Solubility in water : Insoluble in water.

Specific gravity : Approximately 1.5

SECTION 10. STABILITY AND REACTIVITY

Stability

Stable under normal handling conditions.

Incompatibility

Strong acids and strong oxidizing agents

Hazardous decomposition products

Carbon monoxide, carbon dioxide

Hazardous polymerization

It will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

As products:

No information

Toxicity data

(Nickel) : IPR-RAT LD₅₀; 250 mg/kg
(Carbon Black) : ORL-RAT LD₅₀; 15,400 mg/kg

Carcinogenicity

IARC

(Nickel) : IARC-Gr.2B; Possibly carcinogenic to humans.
(Carbon black) : IARC-Gr.2B; Possibly carcinogenic to humans.

ACGIH

(Nickel) : ACGIH-A5; Not Suspected as a Human Carcinogen.
(Carbon black) : ACGIH-A4; Not Classifiable as a Human Carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information

Unknown

Other harmful information

Unknown

SECTION 13. DISPOSAL CONSIDERATIONS

Comply with all applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN NO. : Not listed.
International classification : Not relevant.

SECTION 15. REGULATORY INFORMATION

Export control law in Japan: Under control item of Catch-all regulation.

Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

SECTION 16. OTHER INFORMATION

Reference

SDS of each component issued by material makers.

The information herein is the best of our knowledge and is only related to this specific product. No warranty, either expressed or implied, is made with respect to such information. The recommended handling procedures are believed to be generally applicable.

However, it is user's responsibility to review these recommendations in the specific content of the intended use. We reserve the right to revise this SDS as new information become available. It is recommended to ask for the latest version to our sales division.

The end of SDS