

1. Chemical product and company identification

1-1. Product name: Plavis (Polyimide part and shapes)

☐ Trade name: Plavis-ESD

* "Plavis" is a registered trademark of Daelim.

1-2. Advisable use and Restriction

☐ Advisable use: Equipment parts of LCD, OLED and Semiconductor, parts of Automobile and General industry

☐ Restriction of product using: no data available

1-3. Manufacturer / Supplier / Distributor information

☐ Company: DAELIM Co., Ltd

☐ Address: 101-55 Dongsansaneopdanji-ro, Eunjin-myeon, Nonsan-si, Chungcheongnam-do, Republic of Korea

☐ Emergency response number: (TEL) +82-41-980-1732 / (FAX) +82-41-980-1730

2. Hazards identification

2.1 Classification of the substance or mixture

☐ Classification according to Regulation (EC) No 1272/2008

Not hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2 Label elements

☐ Labelling according Regulation (EC) No 1272/2008

Not hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.3 Other hazards

☐ none

3. Composition / information on ingredients

No.	Components	CAS No.	PCT (WT%)
1	Poly-N,N'-(p,p'-oxydiphenylene) pyromellitimide	25038-81-7	90~100
2	Carbon Nano Tube	308068-56-6	0~10

*The information above is confidential and strictly for internal use.

4. First aid measures

4.1 Description of first aid measures

☐ If inhaled

- Not applicable

☐ In case of skin contact

- Wash off immediately with soap and plenty of water.

☐ **In case of eye contact**

If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

☐ **If swallowed**

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

☐ no data available

4.3 Indication of any immediate medical attention and special treatment needed

☐ no data available

5. Firefighting measures

5.1 Extinguishing media

☐ **Suitable extinguishing media**

Dry chemicals, Carbon dioxide(CO₂), Foam

5.2 Special hazards arising from the substance or mixture

☐ **Specific hazards during firefighting**

Hazardous decomposition products may be formed under fire conditions (see section 10).

Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

☐ **Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

5.4 Additional information

☐ Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Not applicable

7. Handling and storage

7.1 Precautions for safe handling

☐ **Advice on protection against fire and explosion**

Normal measures for preventive fire protection. Keep away from sources of ignition - No smoking. No sparking tools should be used.

7.2 Conditions for safe storage, including any incompatibilities

○ Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well ventilated place.

○ Advice on common storage

Incompatible with oxidizing agents. Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

Other information on limit values: see chapter 16

8.2. Exposure controls

○ Engineering measures

When you cut and polishing, Provide adequate ventilation.

○ Personal protective equipment

- Respiratory protection

When you cut, grinding and polishing, wear suitable respiratory equipment.

- Hand protection

Wear protective gloves.

- Eye protection

Tightly fitting safety goggles

- Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance.

- Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Spec.	Plavis-ESD
(1) Appearance	Solid parts
(2) Odor	Not applicable
(3) Threshold of odor	Not applicable
(4) pH	No data available
(5) M.P / B.P	No data available
(6) Initial boiling point or range	No data available
(7) Flash point	No data available
(8) Evaporation rate	No data available
(9) Flammability / explosive limit	No data available

(10) Upper / lower flammability / explosive limit	No data available
(11) Vapor pressure	No data available
(12) Solubility	No data available
(13) Vapor density	No data available
(14) Specific gravity	1.3~1.7
(15) n-octanol / water partition coefficient	No data available
(16) Auto ignition temperature	Not available
(17) Degradation temperature	> 500°C
(18) Viscosity	No data available
(19) M.W	No data available

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

Stability

Possible the Thermal decomposition

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products (Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)).

11. Toxicological information

11.1. Information on toxicological effects

☐ **Acute toxicity**

No data available

☐ **Skin corrosion/irritation**

No data available

☐ **Serious eye damage/eye irritation**

Not applicable

☐ **Respiratory or skin sensitization**

Not applicable

☐ **Germ cell mutagenicity**

No data available

- **Carcinogenicity**
No data available
- **Reproductive toxicity**
No data available
- **Teratogenicity**
No data available
- **STOT - single exposure**
No data available
- **STOT - repeated exposure**
No data available
- **Aspiration hazard**
Not applicable
- **Neurological effects**
No data available
- **Toxicology Assessment**
No data available

12. Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

Advice on disposal and packaging

Disposal:

In accordance with local and national regulations.
Do not dispose of together with household waste.
Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport information

- ☐ **ADR**
Not dangerous goods
- ☐ **RID**
Not dangerous goods
- ☐ **IATA**
Not dangerous goods
- ☐ **IMDG**
Not dangerous goods

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable

15.2. Chemical Safety Assessment

Not applicable

16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.