

Safety Data Sheet

Data Sheet No. : BPA-TP1
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Edition : A2

Section 1. Product and Company Identification

Product Name: BPA-TP1

Company Name : Bitpower International Co., Ltd.

Address : No. 87, Lane 619, Section 1, Daxi Road, Xihu Town, Changhua, 51453, Taiwan

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Product Use : Thermally conductive compound.

Section 2. Hazards Identification

GHS-Pictogram :None.

Immediate health, physical, and environmental hazards :

No specific Hazards. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Other Hazards

Eye: Powder or fuming process by the decomposition of rubber or plastic will irritate the eyes.

Skin:The processing temperature in a molten state, if skin contact may cause thermal burns.

Inhalation:Powder or fuming process, into the respiratory tract may cause irritation to the respiratory tract.

Ingestion:

A small amount ingested, basically no harm; a lot of eating, we recommend to removed.

Carcinogenicity :

This product contains no carcinogens.

Section 3. Composition / Information on Ingredients

Components	CAS NO.	Concentration % (w/w)
Al	7429-90-5	< 65
ZnO	1314-13-2	< 23
Oil	8002-74-2	< 10
Antioxidant	6683-19-8	< 2

Section 4. First Aid Measures

Symptoms and Effects :

Not expected to give rise to an acute hazard under normal conditions of use.

Skin :

Exposure to molten resin may cause thermal burns. If molten material comes in contact with the skin, cool under ice water or a running stream of water. Do Not attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.

Eye Contact :

Dust, fines and process vapors may irritate the eyes. Immediately flush eyes with water for at least 15 minutes. Get medical attention.

Inhalation :

If signs / symptoms develop, remove person to fresh air.

If signs / symptoms persist, get medical attention.

Section 5. Fire Fighting Measures

Specific Hazards : Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide, carbon dioxide.

Extinguishing Media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media : Water in a jet may disperse fire.

Protective Equipment : Full protective clothing and self contained breathing apparatus.

Section 6. Accidental Release Measures

Accidental Release Measures :

Not applicable.

Section 7. Handling and Storage

Handling :

Avoid prolonged or repeated skin contact. This product is considered to be an article that does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

Use general dilution ventilation and / or local exhaust ventilation to control airborne exposures to below occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

Storage Temperatures : Store at temperatures below 60°C (140°F).

Storage : Not applicable.

Section 8. Exposure Controls/ Personal Protection

Exposure Controls

Adequate ventilation and / or engineering controls when materials is heated in processing.

Personal Protection

Eye : Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

Skin : Protective gloves are required when handling hot polymer. Also, long sleeve cotton shirt and long pants if handling molten polymer.

Body Protection : Standard issue work clothes which may include apron, safety shoes or boots as necessary.

Respirator : None under normal processing, if ventilation is adequate.

Section 9. Physical and Chemical Properties

Appearance : Grease.

Color: Gray.

Solubility in water : Insoluble.

Odor threshold value : None.

Melting Point : None (because of Conductive resin is amorphous type).

Flash Point : None. (because of Conductive resin is solid type).

Volatilization rate: None.

Ignition Temperature : None (because of Conductive resin is solid type).

Vapor Pressure: None.

Vapor Density: None.

Relative Density : None.

Specific Gravity (H₂O=1) : 2.5 g/cm³.

Section 10. Stability and Reactivity

Stability : Stable under ambient conditions.

Conditions to Avoid : Strong oxidizing agents.

Hazardous Polymerization : Hazardous polymerization will not occur.

Section 11. Toxicological Information

LD₅₀(oral, rat) : NA

LC₅₀(trout) : NA

Carcinogenity :

Carbon black has been evaluated by IARC as possible Carcinogenic to Human (Group 2B).

However, the carbon black contained in this product is completely encapsulated in thermoplastics and as such, should not present a health hazard. The National Toxicology Program (NTP) or Occupational Safety & Health (OSHA) has not listed carbon black as carcinogen.

Section 12. Ecological Information

Ecological Information : Not applicable.

Chemical Fate Information : Not applicable.

Ecotoxicity: Not applicable.

Persistence and degradability : Not applicable.

Bioaccumulative : Not applicable.

Section 13. Disposal Considerations

Waste Disposal :

Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill.

Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

Section 14. Transport Information

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (ICAO)

Not subject to ICAO regulations.

IATA

Not subject to IATA.

Hazard class : NA

Shipping name : NA

Section 15. Regulatory Information

Follow all regulations in your country.

Labeling according REACH REGULATION (EU) 2015/830 : No labels required.

LEGAL NOTICE

This document contains guidance on the labelling and packaging requirements under Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).

The users are reminded that the text of the CLP Regulation is the only authentic legal reference and that the information in this document does not constitute legal advice. The European Chemicals Agency does not accept any liability with regard to the contents of this document.

Guidance on Labelling and Packaging under the CLP Regulation

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Section 16. Other Information

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