

1. Identification Of Substances / Preparation And Company

Product Information: TCP™300PS-09-02A Thermally Conductive Plastic

Product Number: TCP™300PS-09-02A

Manufacturer/Supplier: Ziitek Electronic Materials & Technology Ltd.

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2. Composition/Information On Ingredients

| Components Name | Synonyms | Gravity (Wt %) | Percentage for Chemical Ingredient (%) | Chemical Abstracts Number(CAS No) |
|-----------------|----------|----------------|--|-----------------------------------|
| Mineral Filler | | 25% - 80% | ***** | Proprietary |
| PA6, 66 | | 20% - 75% | ***** | N/A |
| PPS | | 5% - 25% | ***** | N/A |

Mixture

Chemical Characteristics:

| Hazardous Components Name | Concentration/Percentage | Hazard Symbols |
|---------------------------|--------------------------|----------------|
| (Down is blank) | | |

3. Hazard Identification

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| Hazard Classification | Chronic |
| Major Hazard Effect | Hazard warnings for Health: Not hazardous |
| | Hazard warnings for Environment: Not hazardous |
| | Physical and Chemical Dangerous: Not hazardous |
| | Special Harm: Not hazardous |
| Precautionary Statement | Avoid contact with skin and eyes. In case of fire and/or explosion: do not breathe fumes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if possible. Continue rinsing. IF ON SKIN: Wash with plenty of water and then soap. |
| Other Hazard | Not know. |

4. First Aid Measures

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| Skin Contact | If molten polymer gets on skin, cool rapidly with cool water. Burns have to be treated clinically. |
| Eye Contact | Flush with plenty of water immediately for at least 15 minutes. Get medical attention if irritation persists. |
| Ingestion | Wash out mouth with water provided person is conscious. Never give anything by mouth to an |

unconscious person. Call a physician immediately.

5. Fire Fighting Measure

Suitable extinguishing media: Water, Water fog, CO₂, Foam or dry extinguishers.

Special exposure hazards: No

Special Extinguishing Procedure: Remove away from the heat, extinguish by water or other media

Special protection equipment: No

Combustion products:

Carbon dioxide, water. In case of incomplete combustion: carbon monoxide, hydrocarbons, aldehydes, ketones and acetic acid may be developed.

6. Accidental Release Measures

Personal protection: Avoid eye contact. Do not take internally.

Environmental precautions: Do not allow large quantities to enter drains.

Methods for cleaning up: In case of spillage/leakage, scoop to container to avoid danger of skidding.

7. Handling and Storage

Handling:

During the processing of material, avoid inhalation of fumes, or powders, by providing good ventilation of the workshop and, if necessary, they have to be trapped by intake in an effective manner. If these measures are taken, traces of aldehydes or ketones which may arise during the process, and will remain under the TLV/TWA value. Avoid dispersion of dust in air to reduce potential of ignition or explosions.

Storage:

Keep out from direct sunlight, in well ventilated, cool and dry place

Fire precautions: Equipment must be earthed, to avoid static electric charges.

Any contact with flame or hot surface must be avoided.

8. Exposure Control / Personal Protection

Engineering Control:

Don't expose under sunlight directly.

Hygienic procedures:

Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Personal Protective Equipment:

No need

9. Physical and Chemical Properties / Characteristics

Appearance: Solid

Form: Pellet

Color: Black

Odor: Odorless

PH Value: N/A

Boiling Point/Boiling Range: N/A

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| Decomposition temperature: >350 °C | Flash Point: >400 °C Test Method: Close Cup |
| Inflammable Temperature: >450 °C | Explosion Limits: N/A |
| Vapor Pressure: N/A | Vapor Density: N/A |
| Specific Gravity: 1.65 g/cm ³ | Solubility in water: Insoluble |
| Melting point / Freezing point: 250 - 270°C | Volatility: N/A |

10. Stability and Reactivity

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| Stability: Stable and chemically inert at room temperature. |
| Special Conditions of Hazardous Reaction: Hazardous polymerization will not occur. |
| Conditions to Avoid: Protracted exposure to temperature over 250°C may cause resin degradation. |
| Incompatibility: Strong alkalis and strong acids. |

11. Toxicological information

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| Route of Exposure: Skin contact and accidental ingestion. |
| Signs and Symptoms of Overexposure: No significant adverse effects from normal use. |
| Acute Toxicity: Chemical: Polycarbonate Eyes: Direct contact may cause temporary redness and discomfort. Skin: No significant irritation expected from a single short-term exposure. Ingestion: Low ingestion hazard in normal use. Inhalation: No significant effects expected from a single short-term exposure. |
| Chronic Toxicity: Skin: No known applicable information. Ingestion: Repeated ingestion or swallowing large amount may injure internally. Inhalation: No known applicable information. |
| Other Health Hazard Information: Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms of metallic taste, fever and chills, aches, chest tightness, and cough. |

12. Ecological Information

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| Acute toxicity: No |
| Aquatic and Terrestrial Ecotoxicity: Ecotoxicity Effects: Acute: No adverse effects on aquatic organisms are predicted. Chronic: No adverse effects on aquatic organisms are predicted. Fate and Effects in Waste Water Treatment Plants: No adverse effects on bacteria are predicted. |
| Persistence and Degradability: Water: Solid material, insoluble in water. |

Bioaccumulative Potential Bioaccumulation: No bioaccumulation potential.

Mobility in Soil:

This product is a solid and does not contain significant concentrations of water soluble constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.

Other Adverse Effects:

Additional Environmental:

The product is not biodegradable. It can be recycled using suitable technologies. It does not contain, as additives, compounds of lead, mercury, cadmium and chromium. It does not contain asbestos, CFC, HCFC; halons. It is not a water endangering material. It is very slowly degraded by solar UV irradiation.

13. Disposal Information

Product Disposal:

1. Dispose of in accordance with local regulations.
2. Land filling and incineration can be considered in most cases suitable. Recycling is possible by melting and pelletizing.

Packaging Disposal: Dispose of in accordance with local regulations.

14. Transport Information

International Transport Regulation: Container

The United Nations Number(UN-No): No

Internal Transport regulation:

Can be packed in box: $\leq 8\text{kg}$ 、 $\leq 22\text{kg}$ 、 $\leq 13\text{kg}$ 、 $\leq 20\text{kg}$

Special Transport Way and Note:

Can be delivered as non-dangerous product, DO NOT ALLOW THE SHIPMENT TO BE LEFT ON LOADING DOCKS, IN CUSTOMS WAREHOUSES, OR ON FREIGHT TRUCKS FOR LONG TIME PERIODS.

15. Regulation Information

Apply Regulation :

1. Rules on Workers Health and Safety Facilities.
2. Regulation of Labeling and Hazard Communication of Dangerous and Harmful Materials.
3. Traffic Safety Rules.
4. Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste.

16. Other information

Legend:

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.