



TacLED-10,20,30/85

SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

- 1.1 Identification of the preparation : TacLED-10,20,30  
Synonymous ; Ceramic filled thermosetting composite materials  
Formula ; Mixture
- 1.2 Company:  
Taconic Advanced Dielectric Division  
717 Paeksok-dong, Cheonan-si, Chungchongnam-do, Korea  
Tel : +82-41-523-1858  
Fax : +82-41-523-1857  
E-mail : shhan@taconic.co.kr

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Symbol (s) : & R-phrase (s)
Epoxy Resin	25036-25-3	< 2%	
Epoxy Resin	28064-14-4	< 1%	
Copper	7440-50-8	Varies	
Alumina	1344-28-1	< 5%	
Aluminum	7429-90-25	< 87%	

## 3. HAZARDS IDENTIFICATION

Most important hazards : May cause eye/skin irritation (dust).

## 4. FIRST AID MEASURES

- 4.1 Eyes : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
- Skin ; Dust : Wash with plenty of water. Remove and wash contaminated clothing before re-use.
- Inhalation : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Oxygen or artificial respiration if needed. Consult a physician.
- Ingestion : Obtain medical attention.

## 5. FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media:  
Water, carbon dioxide (CO<sub>2</sub>), dry chemical.
- 5.2 Extinguishing media which must not be used for safety reasons : None
- 5.3 Specific hazards : The product itself does not burn.
- 5.4 Special protective equipment for firefighters : Standard procedure for chemicals fires. In the event of fire, wear self-contained breathing apparatus, face –shield, protective suit.



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## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions: Not applicable. Article.
- 6.2 Methods for cleaning up: Not applicable.
- 6.3 Environmental precautions: Not applicable.

## 7. HANDLING AND STORAGE

- 7.1 Handling : Provide appropriate exhaust ventilation at places where the dust is formed.
- 7.2 Storage : Not applicable.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Engineering measures:  
Provide appropriate exhaust ventilation at the places where the dust is formed.
- 8.2 Personal protection equipment:
  - Respiratory protection: In the case of respirable dust, use self-contained breathing apparatus. Avoid dust formation.
  - Hand protection: Gloves.
  - Eye protection: Wear as appropriate : safety glasses, goggles, face shield.
  - Skin and body protection: Wear as appropriate : gloves, apron.
- 8.3 Exposure limit (s) :
  - US ACGIH TLV : 10 mg/m<sup>3</sup> (Aluminum)  
1 mg/m<sup>3</sup> (Copper dust)  
Not Established (Epoxy Resin)  
10 mg/m<sup>3</sup> (Alumina)
  - US OSHA PEL : 5 mg/m<sup>3</sup> (Aluminum)  
1 mg/m<sup>3</sup> (Copper dust)  
Not Established (Epoxy Resin)  
5 mg/m<sup>3</sup> (Alumina)

# TACONIC

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Form	: Solid
9.2	Odour	: None
9.3	pH @°C	: °C Not applicable
9.4	Boiling point/range	: °C Not applicable
9.5	Melting point/range	: °C Not applicable
9.6	Flash point	: °C Not applicable
9.7	Flammability (solid, gas)	: Not applicable
9.8	Autoignition temperature	: °C Not determined
9.9	Explosion limits	: % vol Not applicable
9.10	Oxidizing properties	: Not applicable
9.11	Vapour pressure @ 20°C	: hPa Not applicable
9.12	Relative density @°C	: 2.20 g/cm <sup>3</sup>
9.13	Water Solubility	: Insoluble in water
9.14	Solubility in other solvents	: Not applicable
9.15	Partition coefficient	: Not applicable (n-octanal/water)
9.16	Vapour density	: Not applicable
9.17	Evaporation rate	: Not applicable

## 10. STABILITY AND REACTIVITY

10.1	Stability	: Stable.
10.2	Conditions to avoid	: None under normal use.
10.3	Materials to avoid	: Strong oxidants.

## 11. TOXICOLOGICAL INFORMATION

11.1	Acute toxicity :
11.2	Irritation : -Skin : May cause skin/eye irritation (dust)
11.3	Sensitization :
11.4	Chronic toxicity: no data available

## 12. ECOLOGICAL INFORMATION

12.1	Mobility : Not applicable
12.2	Ecotoxicity effects : Not biodegradable
12.3	Other information :



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### 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste from residue/  
unused products : Contact waste disposal services. Dispose of as a special  
waste in compliance with the Control of Pollution  
(Special waste) Regulations 1980.
- 13.2 Contaminated packaging : Not applicable

### 14. TRANSPORT INFORMATION

Not regulated

UN No

ADR/RID Proper shipping name :

IMDG Proper shipping name :

IATA/ICAO Proper shipping name :

### 15. REGULATORY INFORMATION

15.1.1 Classification according to European directive on classification of hazardous  
preparations 88/379/EEC contains:

Symbol (s)

: R-phrase(s): None

: S-phrase(s): None

### 16 OTHER INFORMATION

Revision : 0

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