



SAFETY DATA SHEET

Product name(number): TIF700RES Series Thermal Conductive Silicone Pad

Reference for compilation: GB/T 16483

Date of first issue:

16/5/2018

Version Date:

19/9/2025

SDS Number: SDS-TIF700RES-EN Revision: B0

SECTION 1: IDENTIFICATION

Product name: Thermal Conductive Silicone Pad
Product number: TIF700RES Series
Company name of supplier: Ziitek Electronic Materials & Technology Ltd.
Address: No. 12, Xiju Road, Hengli Town, Dongguan City, 523465 Guangdong Province
(Building C5, Distric 1, Xicheng)
Telephone: +86-769-38801208
Emergency telephone: +86-769-38801208
Fax: +86-769-83791290
Email:
Recommended use: Thermal interface material
Restrictions on use: For industrial use only

SECTION 2: HAZARDS IDENTIFICATION

Physical hazards No
Health hazards No

GHS classification in accordance with the OSHA Hazard Communication Standard

Not classified

GHS label elements

Hazard symbol: None
Signal word: None
Hazard statement: The product does not meet the criteria for classification
Precautionary statement:
Prevention: Observe good industrial hygiene practices.
Response: Wash hands after handling.
Storage: Store away from incompatible materials
Disposal: Dispose of waste and residues in accordance with local auth-ority requirements.

Other hazards: None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Components

Chemical Name	Concentration (% w/w)	Chemical Abstracts Number(CAS No)
Aluminium oxide	75%~90%	1344-28-1
Organosilicon	5%~25%	63148-62-9
Platinum catalyst	0.1%~0.5%	68478-92-2

Actual concentration is withheld as a trade secret.

The manufacturer lists no ingredients as hazardous to health according to OSHA.

The ingredients in this product are fully encapsulated in silicone binder in its finished state, therefore no exposure to these materials is expected during normal use/handling of this product.

SECTION 4: FIRST AID MEASURES

Inhalation: Not relevant, due to the form of the product.
Skin contact: Not relevant, due to the form of the product.



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Eye contact:	Not relevant, due to the form of the product.
Ingestion:	Not relevant, due to the form of the product.
Most important symptoms and effects, both acute and delayed:	Not relevant, due to the form of the product.
Protection of first-aiders:	No special precautions are necessary for first aid responders.
Notes to physician:	Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing:	None.
Specific hazards during fire fighting:	During fire, gases hazardous to health may be formed.
Fire fighting equipment/instructions:	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific extinguishing methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	Contains one or more components that will burn if involved in a fire.
Special protective equipment for fire-fighters:	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.
Environmental precautions:	Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up:	Sweep up or gather material and place in appropriate container for disposal. For waste disposal, see section 13 of the SDS.

SECTION 7: HANDING AND STORAGE

Precautions for safe handling:	No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product. Observe good industrial hygiene practices.
Conditions for safe storage:	Store in closed original container in a dry place.
Materials to avoid:	No special restrictions on storage with other products.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:	No exposure limits noted for ingredient(s).
Appropriate engineering controls:	Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes. In an industrial work environment no special precautions or control measures are required.
Biological limit values:	No biological exposure limits noted for the ingredient(s).
Personal protective equipment	
Respiratory protection:	Respiratory protection not required.
Hand protection:	Not normally needed. For prolonged or repeated skin contact, use suitable protective gloves



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Skin and body protection: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Eye protection: Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Solid.

Form Sheet.

Color Gray.

Odor Odorless.

Odor threshold Not applicable.

pH Not applicable.

Melting point/freezing point Not applicable.

Initial boiling point and boiling range Not applicable.

Flash point Not applicable.

Evaporation rate Negligible.

Flammability (solid, gas) Non flammable.

Upper explosion limit / Upper flammability limit Non flammable.

Lower explosion limit / Lower flammability limit Non flammable.

Vapor pressure Not applicable.

Relative vapor density Not applicable.

Relative density 3.5 g/cc @25°C

Solubility (water) Negligible.

Partition coefficient (n-octanol/water) Not applicable.

Autoignition temperature Not applicable.

Decomposition temperature The substance or mixture is not classified self-reactive.

Viscosity Not applicable.

Explosive properties Not explosive.

Oxidizing properties The substance or mixture is not classified as oxidizing.

SECTION 10: STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials.

Incompatible materials: Strong alkalis and strong acids.



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Hazardous decomposition products: Decomposition is not expected under normal conditions of use and storage. In the event of fire: See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	No adverse effects due to eye contact are expected.
Ingestion	Not likely, due to the form of the product.
Symptoms related to the physical, chemical and toxicological characteristics	Under normal conditions of intended use, this product is not expected to be a health risk.

Information on toxicological effects

Acute toxicity:	Not expected to be acutely toxic.
Skin corrosion/irritation:	Not classified.
Serious eye damage/eye irritation:	Not classified.
Respiratory or skin sensitization	
Respiratory sensitization:	Not a respiratory sensitizer.
Skin sensitization:	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity	Not listed.
NTP Report on Carcinogens	Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity-repeated exposure	Not classified.
Aspiration hazard	Not relevant, due to the form of the product.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	The product is not classified as environmentally hazardous.
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	No data available on bioaccumulation.
Mobility in soil:	The product is insoluble in water. Not expected to be mobile in soil.
Other adverse effects:	No data available for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods



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Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.

UNRTDG Not regulated as dangerous goods.

IATA-DGR Not regulated as dangerous goods.

IMDG-CODE Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards No SARA Hazards

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

Toxic Substances Control Act (TSCA) One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
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Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
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Country(s) or region	Inventory name	On inventory (yes/no)*
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Canada	Domestic Substances List (DSL)	Yes
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Canada	Non-Domestic Substances List (NDSL)	No
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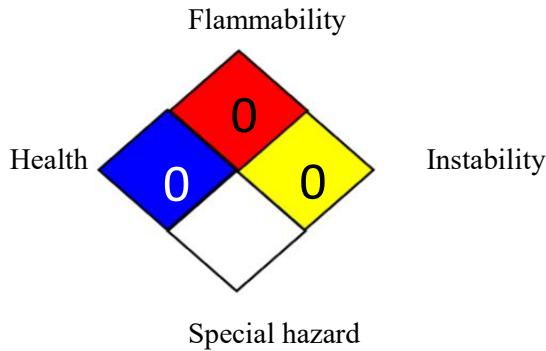
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory(TCSI)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

"Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
"No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

NLM: Hazardous Substances Data Base



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National Toxicology Program (NTP) Report on Carcinogens

IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.