2.



# SAFETY DATA SHEET

1. Identification

Identification				
Product identifier	Thermal Pad			
Other means of identification				
Product code	TG-A1780			
Recommended use	Thermal Pad			
Manufacturer/Importer/Supplier/Distributor informationManufacturer/SupplierT-GLOBAL TECHNOLOGY CO., LTDAddressNo.33, Ln. 50, Daren Rd., Taoyuan City, Taoyuan County 330, Taiwan				
Emergency telephone number+886-3-3618899Issue date2018/10/26Revision date-				
Hazard(s) identifi	cation			
<b>Emergency overview</b> Low hazard under normal conditions.				
Physical hazards	Not classified.			
Health hazards	Not classified.			
OSHA defined hazards Not classified.				
GHS-classification	Not classified.			
Label elements				
Hazard symbol	None.			
Signal word	Not applicable.			
Hazard stateme	nt Not applicable.			
Precautionary statement				
Prevention	Observe good industrial hygiene practices.			
Response	Wash thoroughly after handling.			
Storage	Store away from incompatible materials.			
Disposal	Dispose of waste and residues in accordance with			
	local authority requirements			
Hazard(s) not otherwise classified (HNOC)				
Supplemental information This product is not hazardous according to				
	OSHA 29 CFR 1910.1200 requirements,			
	therefore a hazard label does not apply			

therefore a hazard label does not apply.

#### T-Global Technology Co., Ltd





#### 3. Composition/information on ingredients Substance/mixture Mixture

	Substance/mixtu	re Mixture					
	Chemical name		CAS Number	Concentration (%)			
	Aluminum nitride Boron nitride		24304-00-5	22~48			
			10043-11-5	3~11			
	Silicone		68083-18-1	2~5			
	Aluminum oxide		1344-28-1	33~57			
4.	First-aid measure	S					
	Inhalation	Move to fresh ai	r. Get medical atte	ention if symptoms			
		occur.					
	<b>Skin contact</b> Wash skin with soap and water. Get medical attention if						
	irritation persists after washing.						
	<b>Eye contact</b> Flush thoroughly with water. If irritation occurs, get						
	medical assistance.						
	Ingestion Rinse mouth thoroughly. Get medical attention if any						
	discomfort occurs.						
	Most important sy			Ч			
	most important sy	•	-				
		Under normal conditions of intended use, this material					
	does not pose a risk to health						
	Indication of immediate medical attention and special treatment needed						
	Treat symptomatically.						
F	General information Get medical attention if any discomfort develops						
5.	Fire-fighting mea		firo ovtinguishing	media appropriate			
	Suitable extiligui	for surrounding					
	Unquitable outing	5					
	Unsuitable exting		None known.				
	Specific hazards	-					
	Special protective	• •	precautions for fi	-			
			0 1 1	is and full protective			
	clothing must be worn in case of fire. Selection of						
		respiratory prote	ection for firefight	ing: follow the			
	general fire precautions indicated in the workplace.						
	Fire fighting equipment/instructions Move containers from fire area if						

you can do so without risk.

#### T-Global Technology Co., Ltd



發佈日期: 2018/10/26 修訂日期 -版本號: 01



General fire hazards This product is not flammable.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. For personal protection, see section 8 of the SDS.

#### 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.

# **Environmental precautions** Environmental Manager must be informed of all major spillages.

#### 7. Handling and storage

#### Precautions for safe handling

Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Observe good industrial hygiene practices. Wear appropriate personal protective equipment (See Section 8).

#### Conditions for safe storage, including any incompatibilities

Store in closed original container in a dry place. Store away from incompatible materials.

#### 8. Exposure controls/personal protection

**Occupational exposure limits** No occupational exposure limits noted

for the ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Follow standard monitoring procedures.

Appropriate engineering controls Use process enclosures, local

exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protectionRisk of contact: Wear approved safety<br/>goggles.

Skin protection

Hand protection Use suitable protective gloves if risk of skin

#### T-Global Technology Co., Ltd





contact. Suitable gloves can be recommended by the glove supplier.

Other If prolonged or repeated contact is likely, chemical resistant clothing is recommended.

**Respiratory protection** In case of inadequate ventilation, use respiratory protection.

Thermal hazardsWear appropriate thermal protective<br/>clothing, when necessary.

# General hygiene considerations

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. Discard contaminated clothing and footwear that cannot be cleaned.

# 9. Physical and chemical properties

#### Appearance

Physical state	Solid	
Form	Solid	
Color	Gray	
Odor	None.	
Odor threshold	Not relevant.	
рН	Not relevant.	
Melting point/freezing point	Not relevant.	
Initial boiling point and boiling range Not relevant.		
Flash point	Not relevant.	
Evaporation rate Not rele		
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower(%)	Not relevant.	
Flammability limit - upper(%)	Not relevant.	
Explosive limit - lower (%)	Not relevant.	

#### T-Global Technology Co., Ltd



發佈日期: 2018/10/26 修訂日期 -版本號: 01



Explosive limit - upper (%)	Not relevant.
Vapor pressure	Not relevant.
Vapor density	Not relevant.
Solubility(ies)	
Solubility (water)	Insoluble ( <0.1%)
Solubility (solvents)	Not relevant.
Partition coefficient	Not relevant.
Auto-ignition temperature	Not relevant.
Decomposition temperature	Not relevant.
Viscosity	Not relevant.
Other information	
Bulk density	Not available.
Density	3.5
Explosive properties	Not relevant.
Oxidizing properties	Not relevant.
VOC	Not relevant.

10. Stability and reactivity

Reactivity Chemical stability

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

Chemical stability Material is stable under normal conditions.

# Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None.

# 11. Information on likely routes of exposure

Inhalation	Elevated temperatures or mechanical action may
	form dust and fumes which may be irritating to the
	mucous membranes and respiratory tract.
Skin contact	Prolonged skin contact may cause temporary
	irritation.





Eye contact

May cause eye irritation on direct contact.

IngestionIngestion may cause irritation and malaise.Symptoms related to the physical, chemical and toxicologicalcharacteristics

Under normal conditions of intended use, this material does not pose a risk to health.

#### Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

### Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

### 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

Inhalation of carbon black dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.

**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 an aspiration hazard.

Chronic effects None known.

# T-Global Technology Co., Ltd



#### **Further information**

None known.



12. Ecological information

Ecotoxicity	The pi	roduct is not classified as
	enviro	nmentally hazardous.
Persistence and degradability		No data available.
Bioaccumulative potential		No data available.
Mobility in soil	The product is insoluble in water.	
Other adverse effects	None known.	

13. Disposal considerations

# **Disposal instructions**

Dispose of contents/container in accordance with local/regional/national/international 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

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

# Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied.

# 14. Transport information

- **DOT** Not regulated as dangerous goods.
- IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### T-Global Technology Co., Ltd





This substance/mixture is not intended to be transported in bulk.

# 15. Regulatory information

Trash Clearance Act., Air Pollution Protection Act., Enforcement Rules of the Labor Safety and Health Law, Prevention and Control of Water Pollution Act.

# 16. References

EPA: AQUIRE database IARC Monographs. Overall Evaluation of Carcinogenicity NLM: Hazardous Substances Data Base

# DISCLAIMER:

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. T-GLOBAL MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the T-GLOBAL product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a T-GLOBAL product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the T-GLOBAL product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

