SAFETY DATA SHEET

1. Identification

Product identifier Thermal Pad
Other means of identification
Product code H48-6G
Recommended use Thermal Pad
Manufacturer/Importer/Supplier/Distributor information
   Manufacturer/Supplier t-Global Technology (Europe and North America) Ltd
   Address Unit 1 and 2 Cosford Business Park, Lutterworth, Leics, LE17 4QU, UK
   Emergency telephone number 01455 553510
Issue date 2018/04/27
Revision date -

2. Hazard(s) identification

Emergency overview 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 statement 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.
3. **Composition/information on ingredients**

**Substance/mixture** Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone</td>
<td>68083-18-1</td>
<td>15~28</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>72~85</td>
</tr>
</tbody>
</table>

4. **First-aid measures**

**Inhalation** Move to fresh air. Get medical attention if symptoms occur.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion** Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

**Most important symptoms/effects, acute and delayed**

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.

**General information** Get medical attention if any discomfort develops.

5. **Fire-fighting measures**

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** None

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: 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.

**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 protection Risk of contact: Wear approved safety goggles.
Skin protection

Hand protection Use suitable protective gloves if risk of skin 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 hazards Wear appropriate thermal protective 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not relevant</td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flammability limit - lower(%)</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flammability limit - upper(%)</td>
<td>Not relevant</td>
</tr>
</tbody>
</table>
Explosive limit - lower (%)  Not relevant.
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  3.09
   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.
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May cause eye irritation on direct contact.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Ingestion may cause irritation and malaise.</td>
</tr>
</tbody>
</table>

**Symptoms related to the physical, chemical and toxicological characteristics**

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

<table>
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<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
</tbody>
</table>

**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.
Further information  None known.

12. Ecological information
Ecotoxicity  The product is not classified as environmentally 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
This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

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

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