AMAWI | TECHNOLOGIES

Safety Datasheet

Revision date: 24.08.2026	**FusionSheet PTM phase change thermal interface material**	According to Regulation (EC) No. 1907/2006 (REACH)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier	
Commercial Name	FusionSheet PTM phase change thermal interface material
Brand	Amawi Technologies
Article No./ SKU:	AT-FSH-38-38-R / AT-FSH-50-40-R / AT-FSH-80-40-R
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Use of the substance or mixture:	Cooling and thermal insulation
1.3. Details of the Supplier of the Safety Data Sheet	Amawi Technologies Ulmenweg 3 37077 Göttingen Germany Tel.: +49 171 5171287 info@amawitech.com
1.4. Emergency telephone Number	Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

SECTION 2: HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture under Regulation (EC) No. 1272/2008 (CLP). Supplied as a solid sheet at room temperature.

No significant hazard under normal handling. The product softens and becomes semi-liquid at its rated phase-change temperature (45-55°C) as part of normal operation inside a cooling assembly; this is not a hazard indicator. As with any paraffin-wax-based material, avoid exposure to open flame or temperatures well above the intended operating range.

SECTION 3: INFORMATION ON INGREDIENTS

Product name: Phase change thermal interface sheet

1: Paraffin / hydrocarbon wax matrix: 30%-45% CAS: 8002-74-2 (paraffin wax)
2: Aluminum oxide (ceramic thermal filler): 50%-65% CAS: 1344-28-1
3: Additives/processing aids: <5%

Composition ranges reflect the paraffin-wax-and-ceramic-filler class typical of commercial phase change thermal interface materials; exact formulation is proprietary and should be confirmed against the supplier's certificate of analysis before use in a regulatory submission requiring an exact percentage.

SECTION 4: FIRST-AID MEASURES

- Eye contact: If softened/liquid material contacts eyes, rinse with water for 15 minutes and seek medical attention if irritation persists.
- Skin contact: If softened material contacts skin at elevated temperature, cool the area with water; no first aid needed for contact with the solid sheet at room temperature.
- Inhalation: No irritating odor; not a relevant exposure route under normal use.
- Ingestion: Not intended for ingestion. If swallowed, rinse mouth with water and seek medical attention.

SECTION 5: FIRE AND EXPLOSION

Suitable extinguisher: Dry powder, carbon dioxide, or water spray fire extinguisher.

Special hazards: As a wax-based material, this product can act as combustible fuel if exposed to direct open flame or temperatures far above its 45-55°C operating range; avoid inhalation of smoke if combustion occurs.

Special fire-fighting procedures: Cut off the ignition source and extinguish with an appropriate extinguisher.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal attention: Not required for the solid sheet at room temperature.

Environmental considerations: Not classified as an environmental pollutant.

Cleaning method: Remove solid pieces mechanically. If softened, allow to cool and solidify before removal, or wipe with isopropyl alcohol.

SECTION 7: USE/HANDLING AND STORAGE

Storage: Store flat at room temperature, below 45°C, away from direct sunlight and open flame.

Use: Cut to shape and apply as directed in product instructions. No special protection needed during normal handling.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL MEASURES

Engineering Control: None required for normal handling.

Control parameters: Keep storage below 45°C to prevent premature softening.

Personal Protective Equipment: None required for normal handling of the solid sheet.

Hygiene measures: Wash hands after handling.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance and form: Solid gray sheet at room temperature; softens to a semi-liquid, tacky state above the phase-change temperature

Odor: No irritating odor

Phase change temperature: 45-55°C (solid to semi-liquid)

Density: 2.6 g/cm^3

Electrically conductive: No

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage and use conditions; the solid-to-semi-liquid phase change is a reversible physical process, not a chemical reaction, and repeats without degradation over the product's operating life.

Materials to avoid: Open flame, strong oxidising agents.

Hazardous decomposition products: None under normal use; combustion (if exposed to open flame) may produce carbon oxides typical of hydrocarbon wax materials.

SECTION 11: TOXICOLOGICAL INFORMATION

Paraffin-wax-based phase change materials of this type have a well-documented low-toxicity profile and are widely used in consumer electronics cooling.

- Toxicity: Low; not classified as acutely toxic.
- Skin/eye irritation: Not expected to be irritating at room temperature; softened material at elevated temperature may cause thermal (not chemical) discomfort.
- Sensitization: No sensitization known.
- Carcinogenicity/mutagenicity/reproductive toxicity: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Insoluble in water. Not classified as environmentally hazardous. Solid material with low mobility in the environment.

SECTION 13: DISPOSAL CONSIDERATION

1: Solid material can be disposed of as general waste or incinerated in accordance with local regulations.
2: The packaging box can be recycled or incinerated.
3: The outer packaging carton can be recycled.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous goods for transport; transported as non-dangerous goods in container or bulk containers.

SECTION 15: REGULATORY INFORMATION

Restricted legal standards and terms: None.

SECTION 16: OTHER INFORMATION

Preparation Date: 24.08.2026

This Safety Data Sheet has been prepared in accordance with Article 31 and Annex II of the EU REACH Regulation, including relevant amendments, concerning the harmonization of laws, regulations, and administrative provisions related to the classification, packaging, and labeling of hazardous substances and mixtures. This Safety Data Sheet (SDS) is intended to ensure that all individuals who may use, handle, dispose of, or otherwise come into contact with the product are fully informed and understand the provided information. If the recipient subsequently formulates a product using a substance from Amawi Technologies, it is their sole responsibility to incorporate all relevant information from the Amawi Technologies Safety Data Sheet into their own SDS, in accordance with Article 31 and Annex II of the EU REACH Regulation.

All data and guidance presented in this SDS are based on the current level of scientific and technical knowledge available at the time of publication. Amawi Technologies shall not be held liable for any product defect not detectable given the current state of knowledge and technology. As noted, this SDS has been prepared in compliance with applicable European legislation. Please be aware that the content and format of Safety Data Sheets may vary between countries, even for the same product, in order to meet local regulatory standards. This SDS was prepared for a paraffin-wax-based phase change thermal interface sheet. Hazard classification and composition ranges are grounded in the well-documented composition class of comparable commercial phase change TIM products; the exact proprietary formulation should be confirmed against the supplier's certificate of analysis before this document is relied upon for a regulatory submission requiring precise percentages. If you have any questions, please contact Amawi Technologies customer service through amawitech.com or contact us via info@amawitech.com.

*****END OF REPORT*****