



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH), Annex II

Revision date: 2026-09-01 (Shenzhen Halnziye Electronics Co., Ltd.) · Amawi edition 2026-10-23 (EU importer, editorial corrections)

HY2612 THERMAL PUTTY

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product name	HY2612 THERMAL PUTTY
1.2 Relevant identified uses	Thermal compound / thermal interface material between electronic components and heat sinks. Uses advised against: only use for the intended purpose.
1.3 Manufacturer	Shenzhen Halnziye Electronics Co., Ltd 3-4/F Bld.D Hehengxing Sci&Tech Park, 19 Minqing Road, Longhua District, Shenzhen 518109, China Telephone: 0086-(0)755-28772795 · Fax: 0086-(0)755-28772796
EU importer / supplier	Amawi Technologies GbR, Ulmenweg 3, 37077 Göttingen, Germany Telephone: +49 171 5171287 · E-mail: support@amawitech.com
1.4 Emergency telephone number	Poison Information Centre North (GIZ-Nord), Göttingen, 24 h: +49 551 19240

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture	According to the manufacturer, this mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.
2.2 Label elements	Not required (not a hazardous mixture according to the manufacturer).
2.3 Other hazards	Physical and chemical hazards: not classified. Health hazards: not classified based on available information. Environmental hazards: not classified based on available information. The components in this mixture do not meet the criteria for classification as PBT or vPvB.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical characterisation	Mixture
3.2 Physical form	Grease / compound
3.3 Colour	Light grey
3.4 Use	Thermal conductive material for electronics / microelectronics

3.5 Ingredients				
Chemical name	CAS No.	EC No.	Classification (CLP)	% (w/w)
Poly(dimethylsiloxane)	63148-62-9	Polymer	Not classified	15–20
Zinc oxide	1314-13-2	215-222-5	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 (Index 030-013-00-7)	40–45
Aluminium oxide	1344-28-1	215-691-6	Not classified	35–40

Classification of the ingredients as pure substances (harmonised classification, Annex VI CLP). Full text of H statements: section 16.
Classification of the mixture: section 2.

4. FIRST AID MEASURES	
General information	Pay attention to self-protection. Remove persons from the danger area. Never give anything by mouth to an unconscious person. A vomiting person lying on their back must be placed in the recovery position. No special first aid measures necessary.
4.1 Eye contact	Immediately flush with water for 15 minutes.
4.2 Skin contact	No first aid should be needed.
4.3 Inhalation	No first aid should be needed.
4.4 Ingestion	Get medical attention.
4.5 Comments	Treat according to the person's condition and the specifics of exposure.
4.6 Note to physicians	Treat symptomatically. For further information, contact Shenzhen Halnziye Electronics Co., Ltd.

5. FIRE FIGHTING MEASURES	
5.1 Flammability	Non-flammable.
5.2 Flash point	200 °C (Seta closed cup)
5.3 Auto-ignition temperature	Not determined.
5.4 / 5.5 Flammability limits	Not determined.
5.6 Hazardous properties	None.
5.7 Extinguishing media	Large fires: dry chemical, foam or water spray. Small fires: carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire-exposed containers.
5.8 Special fire fighting procedures and equipment	Determine the need to evacuate or isolate the area according to the local emergency plan. Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus and protective clothing when fighting large fires involving chemicals.
5.9 Hazardous combustion products	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Metal oxides. Formaldehyde.
5.10 Unsuitable extinguishing media	None established.

6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions	Avoid eye contact. Do not take internally.
6.2 Environmental precautions	Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other suitable barriers.
6.3 Methods for cleaning up	Observe the personal protective equipment recommendations in section 8. Wipe or scrape up and contain for salvage or disposal. Clean the area, as spilled material may present a slip hazard even in small quantities. Final cleaning may require steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal.
6.4 Reference to other sections	Safe handling: section 7. Personal protection: section 8. Disposal: section 13.

7. HANDLING AND STORAGE	
7.1 Precautions for safe handling	See section 8. Persons with a history of skin sensitivity problems should not be employed in processes in which this product is used. Provide adequate ventilation, especially in confined areas. Wash hands before breaks and after work. Do not eat, drink, smoke or sniff while using.
7.2 Conditions for safe storage	Store only in the original container. Keep container tightly closed in a cool, well-ventilated place. Keep locked up and out of the reach of children. Keep away from food, drink and animal feeding stuffs. Protect from sunlight and heat sources. Avoid ignition sources.
7.3 Specific end use(s)	Thermal interface material for electronics (see 1.2).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Exposure limits	Zinc oxide (CAS 1314-13-2), as given by the manufacturer: OSHA PEL (final rule) TWA 15 mg/m ³ total dust, 5 mg/m ³ respirable fraction. ACGIH TLV: TWA 10 mg/m ³ total dust. Observe national limit values.
8.2 Engineering controls	Local ventilation: none should be needed. General ventilation: recommended.
8.3 PPE for routine handling	Respiratory protection: none should be needed. Eye protection: safety glasses as a minimum. Hand protection: no special protection needed. Skin protection: washing at mealtime and end of shift is adequate. Hygiene: good industrial hygiene practice; wash after handling, especially before eating, drinking or smoking.
8.4 PPE for spills	Respiratory protection: none should be needed. Eye protection: safety glasses as a minimum. Skin protection: washing at mealtime and end of shift is adequate. Avoid eye contact. Do not take internally.

9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Physical form	Paste / compound
9.2 Colour	Light grey
9.3 Odour	Odourless
9.4 pH	Not determined.
9.5 Solubility in water	Not determined.
9.6 Boiling point / 9.7 Melting point	Not determined.
9.8 Flash point	200 °C (Seta closed cup)
9.9 Auto-ignition temperature	Not determined.
9.10 Explosive properties	No
9.11 Oxidising properties	No
9.12 Vapour pressure at 25 °C	Not determined.
9.13 Specific gravity	3.5–3.6 g/cm ³
9.14 Partition coefficient n-octanol/water	Not determined.
9.15 Vapour density (air = 1)	Not determined.
9.16 Viscosity	190–200 Pa·s
9.17 Molecular weight	Not determined.

10. STABILITY AND REACTIVITY	
10.1 Stability	Stable under normal conditions.
10.2 Reactivity	Not classified as a reactivity hazard.
Materials to avoid	Can react with strong oxidising agents.
Hazardous decomposition products	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Metal oxides. Formaldehyde.
Hazardous polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION	
Acute toxicity	Based on available data, the classification criteria are not met.
Irritation and corrosivity	Based on available data, the classification criteria are not met.
Sensitisation	Based on available data, the classification criteria are not met.
CMR effects	Based on available data, the classification criteria are not met.
STOT single / repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Note	The effects listed are based on actual data, studies of similar compositions, component data and/or expert review of the product (manufacturer's statement).

12. ECOLOGICAL INFORMATION	
12.1 Toxicity	No data available. Contains zinc oxide (see section 3).
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 PBT and vPvB assessment	The components in this mixture do not meet the criteria for classification as PBT or vPvB.
12.6 Endocrine disrupting properties	This product does not contain any known or suspected endocrine disrupting substances.
12.7 Other adverse effects	No data available. Do not allow to enter drains or waters.

13. DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	Dispose of according to official regulations. Consult the local waste disposal expert. Waste codes must be assigned per industry and process according to the European Waste Catalogue (in Germany: AVV).

14. TRANSPORT INFORMATION	
14.1 UN number	Not applicable (not dangerous goods according to the manufacturer).
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable according to the manufacturer.
14.6 Special precautions for user	None.

14.7 Manufacturer's statement	Regulations considered: ICAO Technical Instructions (2023-2024 Edition), IATA Dangerous Goods Regulations (67th Edition, 2026), IMDG Code (2024 Edition), ADR (2024 Edition). The products are properly classified, described, packaged, marked and labelled and in proper condition for transport according to the applicable international and national regulations, and have been tested to fulfil the requirements of SVHC and RoHS so that they can be treated as non-dangerous goods.
--------------------------------------	---

15. REGULATORY INFORMATION	
15.1 EU regulations	Regulation (EC) No 1005/2009 (ozone depleting substances): not applicable. Regulation (EC) No 648/2004 (detergents): not applicable. Regulation (EC) No 850/2004 (persistent organic pollutants): not applicable. Regulation (EU) No 649/2012 (export and import of hazardous chemicals): contains no substances subject to export notification (Annex I). SVHC on the REACH Candidate List (Article 59): none. Substances subject to authorisation (REACH Annex XIV): none.
National regulations (DE)	Water hazard class: non-hazardous to water (nwg), manufacturer's statement.
15.2 Chemical safety assessment	A chemical safety assessment for the substances in this mixture has not been carried out.

16. OTHER INFORMATION	
Revision	Manufacturer's revision 2026-09-01. Amawi edition 2026-10-23: EU importer (1.3), German emergency number (1.4), ingredient identifiers (3), editorial corrections (7.3, 8.1, 12.6, 13, 14, 15, 16). Technical content unchanged.
Full text of H statements in section 3	H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Abbreviations	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road · CAS: Chemical Abstracts Service · CLP: Classification, Labelling and Packaging · EC No.: European Community number · GHS: Globally Harmonised System · IATA: International Air Transport Association · ICAO: International Civil Aviation Organization · IMDG: International Maritime Dangerous Goods Code · PBT: persistent, bioaccumulative, toxic · RoHS: Restriction of Hazardous Substances · SVHC: substance of very high concern · STOT: specific target organ toxicity · TLV: threshold limit value · vPvB: very persistent and very bioaccumulative · nwg: not hazardous to water
Further information	Contact point: Technical Information Center, 0086-(0)755-28772795. Prepared by Shenzhen Halnziye Electronics Co., Ltd. This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is made. Each user should review these recommendations in the specific context of the intended use.