

SAFETY DATA SHEET

AG Thermoglue

Version 1.04
Development date: 25.01.2012
Update date: 18.01.2016

SECTION 1: Identification of the substance/ mixture and the company

1.1. Product ID AG Thermoglue

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified use: AG Termoglue is a great way to attach the radiators on the memory chips, transistors or bridges.

Uses advised against: unspecified

1.3. Details of the supplier of the safety data sheet

Manufacturer AG Termopasty Grzegorz Gąsowski
18-218 Sokóły, ul. Kolejowa 33 E, phone/fax (0 86) 274 13 42

Email address
of the person responsible for the safety data sheet: biuro@termopasty.pl

1.4 Emergency telephone number: 86274 13 42 from 8.00 to 16.00
Toxicological Information 22 618 77 10, the National Toxicological Information Centre 42 631 47 24

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification by 1272/2008:

The mixture has not been classified as hazardous.

Health hazards

In the proper use, it does not pose a hazard.

Environmental hazards

Not classified as hazardous for the environment.

Physical/ chemical hazards:

In the proper use, it does not pose a hazard.

2.2. Label elements

The product has not to be labelled.

Pictograms:

None.

Warning phrase:

None.

Hazards statements:

None.

Precautionary statements:

None.

2.3. Other hazards

No information on meeting the criteria of PBT or vPvB according to annex 13 of the REACH regulation.
Appropriate tests have not been performed.

SAFETY DATA SHEET**AG Thermoglue****SECTION 3: Composition/ information about components****3.1. Substances**

N/A

3.2. Mixture

Hazardous components: no

SECTION 4: First Aid Measures**4.1. Description of the first aid measures****In the case of skin contact:**

After contact with skin, wipe with paper or cloth, then wash with warm water and soap. If case of skin irritation, provide medical care.

In the case of eyes contact:

Immediately rinse eyes with plenty of water for at least 15 minutes. Avoid stream of water due to the risk of mechanical damage to cornea. If irritation persists, provide medical help.

Inhalation exposure:

Low volatile product – the threat of poisoning by the respiratory tract is unlikely. In the case of breathing disorders, provide fresh air and medical help.

If swallowed:

Rinse mouth with water several times. Provide medical help. Pass the doctor with the product data

4.2. The most important symptoms and effects, both acute and delayed:

Skin contact: If contact is too long, irritation is possible.

Eye contact: irritation is possible.

Respiratory tract: irritation of mucous membranes of the upper respiratory tract.

Gastrointestinal tract: intake can cause chemical irritation of the mouth, throat and further sections of the gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

The decision on how to proceed is taken by the doctor after examination of the injured.

SECTION 5: Actions to be taken in the event of fire**5.1. Fire-fighting measures**

AG TermoGlue thermo-adhesives is hardly combustible. The recommendations are applied in the event of a fire in the neighbourhood.

Proper fire-fighting measures: water, alcohol-resistant foam, extinguishing powder, carbon dioxide.

Improper fire-fighting measures None

5.2. Special hazards arising from the substance or mixture

Unknown

5.3. Information for fire-fighters

Do not allow the fire-fighting measures to enter into sewerage systems and waterways. Remove all persons not involved in the fire from the hazardous area. Notify the State Fire Brigade, the nearest local authorities and the nearest Chemical Rescue Unit.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

For those not belonging to the team of employees providing help: inform the relevant services about the failure.

Remove all persons not involved in liquidation of failure from the hazardous area.

For the rescue teams: Assure adequate ventilation, apply individual protection measures.

6.2. Environmental precautions

In the event of a failure do not allow to discharge to the environment. Protect the product from entering into the sewerage system, surface water, groundwater and soil. If possible, try to collect to the appropriate containers for further disposal.

6.3. Methods and materials preventing from containment and applied to clean up

Collect mechanically and place in marked, sealed container in order to recover or dispose the product.

Clean the contaminated surfaces with the detergents and rinse with plenty of water.

6.4. References to other sections

Product waste treatment - see section 13 hereof.

Personal protective equipment - see section 8 hereof.

SECTION 7: Handling and storage of the substances and mixtures

7.1. Precautions for safe handling

Use only in well-ventilated areas. Avoid contact with eyes and prolonged contact with skin. Work in accordance with the principles of safety and hygiene: do not consume food and drinks, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering the sites intended for eating.

7.2. Conditions for safe storage, including any information about mutual incompatibilities

Store in a well-ventilated, cool and dry place. Protect from the sunlight.

7.3. Specific end use(s)

AG TermoGlue thermo-adhesive is a great way to attach the radiators e.g. on the memory chips, transistors or bridges.

SECTION 8: Exposure control/ personal protective equipment

8.1. Parameters for control:

The Regulation of the Minister of Labour and Social Policy of 29 November 2002 on maximum acceptable concentrations and intensities of factors harmful to health in the working environment. (the Journal of Laws, item 817);

Ingredients for which the exposure standards are applied: none

Indications in the air in the workplace

The Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (the Journal of Laws 2011, no. 33, item 166).

PN-EN 1540:2004 Air in the workplace – Terminology; PN-with-04008-7:2002 Air purity protection.

Measurements of the concentrations of the chemicals and industrial dusts in the air in the working environment. The principle of sampling the air in the working environment and the interpretation of the results; PN-Z-04008-7:2002/Az1:2004 The amendment to the standard: Air purity protection.

Measurements of concentrations of the chemicals and industrial dusts in the air in the working environment.

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General ventilation of the room is recommended.

Individual protection measures, such as personal protective equipment:**Eyes or face protection:**

Avoid contact with eyes. When handling the product, if there is a possibility of exposure, wear safety glasses with side-shields (in accordance with EN 166).

Skin protection*Hands protection:*

Avoid skin contact. Wear protective gloves made of natural rubber, nitrile, butyl or PVOH (transition time >120 min) complying with the standard EN-PN 374:2005.

The material used to make the gloves:

Selection of suitable gloves does not only depend on the material, but also the brand and quality resulting from differences between the manufacturers. The resistance of the material used to make the gloves can be determined after testing. The exact time of destruction of the protective gloves must be determined by the manufacturer.

Other:

Not required

Respiratory tract protection

Avoid inhalation of dust. Selection of the personal protection equipment takes into account the concentrations of the substances at the work place, exposure time, activities performed by the employee and the instructions provided by the manufacturer of personal protective equipment. In an emergency, the half-mask or the mask with the dust filter are required.

Thermal hazards:

N/A

Biomonitoring

unspecified

Environmental exposure control

The maximum level of the substance in the air - the Regulation of the Minister of the Environment of 24 August 2012 on the levels of certain substances in the air (the Journal of Laws of 2012, no. 0, item 1031): unspecified.

The limit values for the indicators of pollution in industrial sewage entering the sewerage system - the Regulation of the Minister of Construction of 14 July 2006 *on the way of performance of the obligations of providers of industrial waste water and the conditions of forwarding waste water to the sewerage systems* (the Journal of Laws of 2006, no. 136, item 964): unspecified.

SECTION 9: Physical and chemical properties**9.1. Information about the basic physical and chemical properties**

Appearance: paste, white

Odour:

odourless

Odour threshold:

unspecified

pH:

not applicable

Melting point:

unspecified

Boiling point:

unspecified

Ignition temperature

unspecified

Evaporation rate:

unspecified

Flammability (solid, gas):

not applicable

Lower limit of explosiveness:

unspecified

Upper limit of explosiveness:

unspecified

Vapour tension:

unspecified

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Relative vapour density:	unspecified
Density:	unspecified
Solubility:	insoluble in water
Coefficient of division: n-octanol/water:	unspecified
Autoignition point:	unspecified
Decomposition temperature:	unspecified
Dynamic viscosity at 20°C:	unspecified
Kinematic viscosity:	unspecified
Explosive properties:	unspecified
Oxidising properties:	unspecified

9.2. Other information

Thermal conductivity	> 1 W/m-k
Operating temp. range	-50 to 200°C

SECTION 10: Stability and reactivity**10.1. Reactivity**

Unknown.

10.2. Chemical stability

Stable while maintaining appropriate conditions of storage and use.

10.3. Possibility of hazardous reactions

There are no instances of hazardous polymerization.

10.4. Conditions to be avoided

High temperature

10.5. Incompatible materials

No available data.

10.6. Hazardous decomposition products

No available data.

SECTION 11: Toxicological information**11.1. Information about toxicological effects**

- a) acute toxicity: not showed
- b) skin corrosion/irritation: not showed
- c) serious eye damage/irritation: not showed
- d) respiratory tract or skin sensitisation;
- e) germ cells mutagenicity: not showed
- f) carcinogenicity: not showed
- g) harmful for reproduction: not showed
- h) toxic effects on target organs - single exposure: not showed
- i) toxic effects on target organs - repeated exposure: not showed
- j) aspiration hazard: no

Information about likely routes of exposure:**Inhalation exposure**

With proper handling and management of product, exposure in this way is unlikely.

Skin contact

With proper handling and management of the product, side-effects on the skin are not expected.

Eyes contact

With proper handling and management of the product, adverse effects are not expected.

Swallowing

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Ingestion of the product can cause abnormalities in the gastrointestinal tract.

Delayed, direct and as well as chronic effects from short and long-term exposure:

No available data.

Interactive effects:

No available data.

SECTION 12: Ecological information

Detailed tests were not executed, in view of the above, there is no more data.

Do not allow to enter and spread in soil, sewerage systems, groundwater and waterways.

12.1. Toxicity

No available data.

12.2. Durability and degradability

No available data.

12.3. Bioaccumulative potential

No available data.

12.4. Mobility in soil

The product is highly volatile, does not threat the atmosphere, can be threatened to surface water and soil.

Avoid spillage of the product into sewage system, water reservoirs, groundwater and soil.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

No available data.

SECTION 13: Waste treatment**13.1 Waste treatment methods****Worn product**

Do not dispose into the sewage system. Prevent from pollution of surface water and groundwater. Do not dispose with municipal waste. Burn in the incineration plant of hazardous waste in with the flammable materials. The method of disposal of collected waste shall be agreed with the Department of the Environmental Protection of the Regional Office or the Starosty.

Contaminated packaging

Disposable packaging shall be emptied at the authorised consignee.

Packaging code: 15 01 02 - plastic packaging

The Regulation of the Minister of Environment of 9 September 2014 on the waste catalogue (the Journal of Laws item 1923).

The community legislation on waste:

The Directive of the Council no. 75/442/EEC on waste, the Directive of the Council no. 91/689/EEC on hazardous waste, the Decision of the Commission no. 2000/532/EC of 3 May 2000 stating the list of waste, the Official Journal no. L 226/3 of 6 September 2000 with the amending decisions.

SECTION 14: Transport informationADR/RID/IMDG/IATA:**14.1. UN number:**

Not applicable, the product is not classified as hazardous during transport.

SAFETY DATA SHEET**AG Thermoglue****14.2. UN proper transport name:**

Not applicable, the product is not classified as hazardous during transport.

14.3. Class(es) of hazards in transport:

Not applicable, the product is not classified as hazardous during transport.

14.4. Packing group

Not applicable, the product is not classified as hazardous during transport.

14.5. Environmental hazards

Not applicable, the product is not classified as hazardous during transport.

14.6. Specific precautions for users:

Not applicable, the product is not classified as hazardous during transport.

14.7. Transport in bulk in accordance with annex II to the MARPOL Convention and the IBC Code:

Not applicable, the product is not classified as hazardous during transport.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations specific for the substance or mixture**

The Regulation (EC) no. 1907/2006 of the European Parliament and the Council of 18 December 2005 on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as amended.

The Regulation of the Commission (EU) 2015/830 of 28 May 2015 amending the Regulation (EC) 1907/2006 of the European Parliament and the Council on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

The Regulation of the European Parliament and the Council of 16 December 2008 no. 1272/2008 (CLP), as amended.

The Act of 25 February 2011 on chemicals and their mixtures (the Journal of Laws no. 63, item 322, as amended).

The Regulation of the Minister of Health on 10 October 2013 amending the Regulation on the categories of hazardous substances and mixtures, the packagings of which are equipped with closures preventing from opening by children and tactile warning of hazard (the Journal of Laws of 2013, no. 0, item 1225).

Te Act of 14 December 2012 on waste (the Journal of Laws of 2013, no. 0, item 21).

The Act of 13 June 2013 on management of packagings and packagings waste (the Journal of Laws of 2013, item 888).

The Regulation of the Minister of Environment of 9 September 2014 on the waste catalogue (the Journal of Laws item 1923).

The Directive of the Council, no. 75/442/EEC on waste, the Directive of the Council no. 91/689/EEC on hazardous waste, the Decision of the Commission no. 2000/532/EC of 3 May 2000 stating the list of waste, the Official Journal no. L 226/3 of 6 September 2000, with the amending decisions.

The Act of 19 August 2011 on transport of hazardous goods (the Journal of Laws, no. 227, item 1367).

The Government Statement of 23 March 2011 on the entry into force of the amendments to annexes A and B of the European Agreement concerning the international transport of hazardous goods by road (ADR), drawn up in Geneva on 30 September 1957 (the Journal of Laws no. 110, item 641).

The Regulation of the Minister of Labour and Social Policy of 6 July 2014 on the maximum acceptable concentrations and intensities of factors harmful to health in the working environment (the Journal of Laws item 817).

The Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to existence of chemical agents in the work place (the Journal of Laws 2005, no. 11, item. 86, as amended).

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The Regulation of the Minister of Environment of 9 December 2003 on substances posing particular threat to the environment (the Journal of Laws no. 217, item 2141).

15.2. Chemical safety assessment

No data on the chemical safety assessment for the substance contained in the mixture and the mixture itself.

SECTION 16: Other information

All data are based on our present knowledge. The safety data sheet was developed based on the SDS and the data obtained from the manufacturer. Recipients of our product must take into account the existing laws and other regulations.

Other sources of key data used to update hereof:

- The legislation referred to in section 15 hereof.
- The annex to the Regulation of the Commission (EU) 2015/830 of 28 May 2015.
- Information of the Office for Chemicals, the Main Sanitary Inspector, the Institute of Occupational Medicine named after prof. J. Nofer, the Institute of Occupational Medicine and Environmental Health.

H-Phrases:

None.

Description of used abbreviations, acronyms and symbols:

PBT - Durable, showing the ability to bioaccumulation and toxic

vPvB - Very durable and showing large ability to bioaccumulation

ADR – The European Agreement on transport of hazardous goods by road

RID – The regulation on the international transport of hazardous goods with the international railway lines

IMDG – The international maritime dangerous goods code

IATA - The regulation on transport of hazardous goods published by the international air transport association

Classification basis:

The product is not classified as hazardous.

Trainings:

Not required

There have been changes in the safety data sheet in accordance with the COMMISSION REGULATION (EU) No. 2015/830 of 28 May 2015.

Changes in the sections: 2, 3, 8, 9, 11, 15