

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH)  
(COMMISSION REGULATION (EU) 2015/830)

Version 1  
Product Name TG-G1.5-01/TG-G3.0-01

Issue Date 26-Nov-2015  
Revision date 18-Jan-2019

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

### 1.1. Product identifier

Product Name Thermal grease  
Product Code TG-G1.5-01/TG-G3.0-01

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

Recommended Use Thermal grease  
Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier Shenzhen Gembird Electronics Ltd.  
Address 5/F, Building D, Anfeng Industry park, Dalang St. Longhua,  
Shenzhen, China

Importer Gembird Europe B.V.  
Address Wittevrouwen 56, 1358CD Almere, The Netherlands  
Postal Code 1358 CD  
Phone Tel: +31-(0)36-5211588

### 1.4. Emergency telephone number

Europe Tel.: +31 (0)36 5211588

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Not classified

### 2.2. Label elements

Symbols/Pictograms None  
Signal word None  
Hazard Statements Not applicable  
Precautionary Statements Not applicable

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixture

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminum	231-072-3	7429-90-5	81.4	Flam. Sol. 1 (H228) Water-react. 2 (H261)
Polysiloxane	-	-	18.5	-
Silver Oxide	-	1301-96-8	0.1	-

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

#### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

No information available.

### 5.2. Special hazards arising from the substance or mixture

No information available.

### 5.3. Advice for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

## SECTION 6: Accidental release measures

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

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**6.4. Reference to other sections**

See Section 7 for more information  
 See section 8 for more information  
 See section 13 for more information

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

**7.3. Specific end use(s)**

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Aluminum (CAS #: 7429-90-5)	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	STEL 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	-
Chemical Name	Latvia	France	Finland	Germany	Italy
Aluminum (CAS #: 7429-90-5)	TWA: 2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 1.5 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>	-
Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Aluminum (CAS #: 7429-90-5)	TWA: 2.5 mg/m <sup>3</sup> TWA: 1.2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	-
Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum (CAS #: 7429-90-5)	TWA: 5 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> Al Aluminum	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust TWA: mg/m <sup>3</sup> Al

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available

**8.2. Exposure controls****Engineering Controls**

Showers. Eyewash stations. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

**Personal protective equipment**

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand Protection

Wear protective gloves.

Skin and body protection

Suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls**

Prevent entry into waterways, sewers, basements or confined areas.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Paste

**Color**

Gray

**Odor**

No information available

**Odor Threshold**

Not determined

**pH**

Not determined

**Melting point/freezing point**

Not determined

**Boiling point / boiling range**

Not determined

**Flash point**

200 °C

**Evaporation rate**

Not determined

**Flammability (solid, gas)**

Not flammable

**Flammability Limit in Air**

Not applicable

**Vapor Pressure**

Not determined

**Vapor density**

Not applicable

**Density**2.5 g/cm<sup>3</sup>**Relative density**

Not determined

**Partition coefficient (LogPow)**

Not determined

**Autoignition temperature**

Not applicable

**Decomposition temperature**

Not determined

**Kinematic viscosity**

Not determined

**Dynamic viscosity**

Not determined

**Explosive properties**

Not an explosive

**Oxidizing properties**

Not determined

**9.2. Other information**

No information available

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

No information available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Heat, flames and sparks.

**10.5. Incompatible materials**

None known based on information supplied.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum (CAS #: 7429-90-5)	LD50> 15900 mg/kg bw(rat)	-	LC50> 0.888 mg/L/4 h(rat)

**Skin corrosion/irritation**

Non-irritating to the skin.

**Serious eye damage/eye irritation**

No eye irritation.

**Sensitization**

No sensitization responses were observed.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available

**STOT - repeated exposure**

No information available

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Aluminum (CAS #: 7429-90-5)	-	> 50 mg/L/96h	-

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14: Transport information**

**14.1 UN Number** Not regulated

**14.2 Proper shipping name** Not regulated

**14.3 Hazard Class** Not regulated

**14.4 Packing Group** Not regulated

**14.5 Environmental hazards** Non-marine pollutant

**14.6 Special precautions** No information available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

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

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Aluminum 7429-90-5 ( 81.4% )	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

**International Inventories**

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Aluminum 7429-90-5 ( 81.4% )	X	X	Exempt	X	X	X	X

"-" Not Listed

"X" Listed

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Issue Date** 26-Nov-2015  
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**Revision Note** Not applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**TWA** - TWA (time-weighted average)

**STEL** - STEL (Short Term Exposure Limit)

**Ceiling** - Maximum limit value

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**Full text of H-Statements referred to under section 3**

H228 - Flammable solid

H261 - In contact with water releases flammable gases

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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