

TG Conductionaut

Revision date: 04.07.2024

Product code: TG-009

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product Identifier**

TG Conductionaut

Other Description:

Wärmeleitpaste Conductionaut / Thermal Grease Conductionaut / Conductionaut

Further trade names

Article no: TBD

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

Thermal compound application

1.3. Details of the supplier of the safety data sheet

Company name: Thermal Grizzly Holding GmbH
Street: Gewerbestraße 39
Place: D-16540 Hohen Neuendorf
Telephone: +49-40-53278850
E-mail: support@thermal-grizzly.com
Internet: http://thermal-grizzly.com/

Telefax: +49-321-21134793

1.4. Emergency 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**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

No harmful product according (EC) No. 1272/2008

Additional hazard information for humans and environment:

If the normal rules of industrial hygiene are observed, no significant risk is posed by handling this product. The product does not contain any fire or explosion risk.

2.2. Label elements**Regulation (EC) No 1272/2008****GHS Classification (29 CFR 1910.1200):**

Corrosive to metals, category 1.

Signal word: Warning**Pictograms:****Warnings**

H290 May be corrosive to metals.

Precautionary statements

P102 Keep out of reach of children.
P234 Keep only in original container, P390 Absorb spillage to prevent material damage
P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302: Avoid contact with skin (may cause skin irritation)
P305+P351+P338: Remove contact lenses if present and easy to do. Rinse cautiously with water for several minutes.

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P406: Store in non-corrosive, non-metallic containers

2.3. Other hazards

Physical and chemical hazards see Chapter 10

SECTION 3: Composition/information on ingredients**3.1. Mixtures****Hazardous components**

CAS-No.	Chemical Name			Quantity in %
	EC-No.	Index-No.	REACH-No.	
	GHS-Classification			
7440-55-3	gallium			60-70
	231-163-8			
7440-74-6	indium			10-20
	231-180-0			
7440-31-5	tin			10-20
	231-141-8			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove patient from area of exposure

After inhalation

Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek immediate medical attention.

After contact with skin

Remove contaminated clothing, brush material off skin, wash affected area with soap and water. Seek medical attention if irritation develops or persists.

After contact with eyes

Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if irritation develops or persists.

After ingestion

Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

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

We are not aware of any special treatment required. Treat the symptoms

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product is not flammable.

Unsuitable extinguishing media

Water-Spray is not suitable for the overheated substance.

5.2. Special risks posed by the substance or the preparation itself, its combustion products or gases emitted:

If gases/oxides form, use protective equipment/breathing apparatus.

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5.3. Special protective equipment when fighting fires:

Wear breathing apparatus that does not depend on ambient air supply.

Additional information

None

SECTION 6: Accidental release measures**6.1. Personal precautionary measures**

Slip hazard by run out or buried product.

6.2. Environmental precautions

Take up the run out product. Supply the product remainders for disposal.

6.3. Cleaning methods

Large quantities are absorbed (syringe) or up-turned. Remove any product residues by soap solution.

6.4. Additional references

none

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Accord with the putting and clicking of standard management of the storage. Avoid spillage. Prevent any unnecessary contact with other chemicals. Handling unpacked Conductionaut may alter its quality and degree of purity. Thermal Grizzly accepts no liability for changes or product quality resulting from processing the substance.

Conditions for safe storage, including any incompatibilities

Avoid High Temperature at place of storage. Not in glass containers, as with solidifying the liquid has an enlargement of the volume of around approx. 0,3%, which may cause an inner pressure within the glass. Plastics (PE, PP) are well suitable as container material.

Information on storage conditions

Do not store with oxidising or acidic substances

SECTION 8: Limiting and monitoring exposure / personal protective equipment**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Monitoring exposure / personal protective equipment**Workplace limits in Germany: Ingredients with workplace-specific limits to be controlled:**

not applicable

Personal protection:

TBD

Respiratory protection:

P3 respiratory protection in an emergency producing oxide fumes.

Hand protection:

In case of repeated and continuous contact with skin, wear gloves of nitrile rubber. Use lipid-balancing cream, if required.

Eye protection:

Wear safety goggles in case of possible eye contact through splashing.

Body protection:

Wear suitable work clothing in case of splashing risk or other possible body contact

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Information for work hygiene:

Wash hands after work and before breaks. Industrial hygiene

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

Physical state:	Liquid Metal Alloy	
Colour:	Silver	
Odour:	odorless	
Odor threshold:	not applicable	
pH:		not applicable

Changes in the physical state

Melting point:	>8 °C
Initial boiling point and boiling range:	>1300 °C
Flash point:	not determined
Evaporation rate	Not determined

Flammability

Solid:	Not determined
Gas:	Not determined

Explosive properties

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable

Autoignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

not applicable	
Vapour pressure:	< 10(-8) torr at 500 °C
Density:	
Water solubility:	not applicable
Partition coefficient:	not applicable
n-octanol / water:	not determined
Viscosity / dynamic:	0,0021 Pas
Viscosity / kinematic:	0,0021 Pas
Vapour density:	not determined

9.2. Other information

None

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

The product amalgamates with metals on the surface like copper, tin, lead, zinc, gold and silver jewellery, particularly also with light metals on the surface, especially if these are free of oxides. If necessary, the product has to be tested for reactions to materials and chemical substances for a specific application.

10.2. Chemical stability

Stable under ambient conditions. Product is stable: hazardous polymerization will not occur.

10.3. Dangerous Reactivity:

None, If used according to regulations.

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10.4. Conditions to be avoided:

With aluminum and with following addition of water exothermically.

10.5. Substances to be avoided:

Halogeneous one, hydrogen peroxide/hydrogen chloride, chlorine, bromine, aluminum

10.6. Hazardous decomposition products:

None if substance is used properly.

SECTION 11: Toxicological information**11.1. Acute toxicity**

The metal alloy has not been tested, the single components of the alloy are below the limits of acute toxicity even if a full resorption is assumed.

11.2. Effects at humans:

So far as the generally applicable regulations of industrial hygiene were adhered to, any harmful effect on the health has not become known.

After swallowing:

Leaves the body on natural way.

After skin contact:

With frequent skin contact skin defatting is possible. After inhalation: Due to the very low steam pressure not applicably.

After eye contact:

Splashes in the eyes may cause irritations.

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

The product is not miscible with water and shows a tendency toward sedimentation.
Quantitative data for the ecological effect of this product are not present.

12.2. Overall evaluation

In the case of appropriate handling and use no ecological problems are to be expected.

SECTION 13: Disposal considerations

The industry that retrieves raw materials person of silicon retrieves the waste material , there are regular recovery prices.

13.1. Disposal:

Intended use or recycling is to be preferred to the disposal. The product should be disposed according to the locally valid laws on waste disposal and (the competent authorities are responsible to give the necessary information).

13.2. Additional references:

Cleaning agent: diluted, warmed up hydrochloric acid. Soap/water solution for surfaces.

SECTION 14: Transport information

14.1 UN number:	UN2803
14.2 UN proper shipping name:	Gallium
14.3 Transport hazard class(es):	8
14.4 Packing group:	III
14.5 Marina Pollutant	No

Special Precautions:

Corrosive to metals, especially aluminum and aluminum alloys.

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Additional references:

The transportation regulations are quoted after the international adjustments and in the form, how they are used in Germany. Possible discrepancies in other countries are not considered.

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

Regulation (EC) No 2037/2000 (substances that deplete the ozone layer): Not applicable
Regulation (EC) No 850/2004 (Persistent Organic Pollutants): Not applicable
Regulation (EC) No 689/2008 (export and import of dangerous chemicals): Not applicable
Regulation (EC) No 648/2004 (the Detergents): Not applicable
Restrictions under Title VIII of Regulation (EC) 1907/2006: Not applicable

National regulations as

Solvent Ordinance (31 BImSchV) : Not applicable
Water hazard class : not dangerous for water (self-assessment)

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

This information is based on present level of our knowledge, however, offers no assurance of product properties and establishes no contract legal rights.