

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (as amended by Regulation (EU) No. 453/2010)

**Create Date:** 02.03.2015  
**Revised Date :** 02.03.2015  
**Valid from:** 03.03.2015  
**Version:** 1.00

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## 1. Identification of the substance or mixture and of the company

### 1.1 Product identifier

Chemical / Trade Name: Thermal Grizzly Kryonaut

**Andere Bezeichnungen:** Wärmeleitpaste Kryonaut / Thermal Grease Kryonaut / Kryonaut

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

Relevant identified uses: Thermal compound application

Uses advised against by those: Any use in food handling.

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

#### Supplier:

Thermal Grizzly – Eike Salow

#### Street / PO Box

Emmy-Beckmann-Weg 32

#### Country code. / ZIP / City

D-22455 Hamburg

#### Contact for technical information

support@thermal-grizzly.com

#### Phone / Fax / E-Mail

+49 (0)40 532 788-50 / +49 (0)321 211 347-93 / E-Mail: support@thermal-grizzly.com

### 1.4 Emergency number

+49 (0)40 532 788-50

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## 2. Possible dangers

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VII (materials):  
Not determined

Classification according to Directive 67/548 / EEC or Directive 1999/45 / EC (substances and mixtures):  
R22, Harmful if swallowed.

### 2.2 Label elements

#### Label elements according to Regulation (EC) No. 1272/2008 (substances) / Directive 1999/45 / EC (mixtures)

##### Pictogram / Symbol:

None

/ R-phrases: R22 Harmful if swallowed

/ S-phrases: S2 Keep out of the reach of children.

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S24/25 Avoid contact with skin and eyes.

## 2.3 Other hazards

*Physical and chemical hazards  
see Chapter 10*

*Environmental hazards Does not contain any PBT or vPvB substances.  
Other Hazards Other hazards were not at the current level of knowledge  
found.*

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## 3. Composition / information on ingredients

### 3.1 Ingredients

Main component of the substance

Chemical: AL  
Synonyms: Aluminium

CAS-No.: 7429-90-5

### 3.2 Mixtures

(- Hazardous to health or environmental hazard,  
- Components with EU limit values for occupational exposure,  
- Substances which are persistent according to the criteria in Annex XIII of the REACH Regulation,  
bioaccumulative  
and toxic or very persistent and very bioaccumulative,  
- Substances for reasons other than those specified in Article 31 paragraph 1 letter a of the REACH  
Regulation.  
hazards listed in the list established in accordance with Article 59 paragraph 1 of the REACH Regulation  
(List of candidates) were recorded)  
Classification according to Directive 67/548 / EEC: Not Applicable  
Classification according to Regulation (EC) No 1272/2008. Not Applicable

#### **Mixtures Componets:**

AL:	CAS No.: 7429-90-5: >65%
ZnO:	CAS No.: 1314-13-2: <25%
Siloxanes and Silicones:	CAS No.:: >10%

## 4. First-aid measures

### 4.1 Description of first aid measures

General Notice: Contaminated clothing should be changed.

#### **After inhalation**

If difficulties occur after inhalation of vapor / aerosol has fresh air and seek medical attention

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## **After contact with skin**

Wash thoroughly with soap and water, skin care. Change contaminated clothes.

## **After contact with eyes**

In case of contact with eyes, rinse thoroughly with water.

In the event of symptoms refer for medical treatment

## **after swallowing**

Rinse mouth and then drink plenty of water, NOT induce vomiting. Seek IMMEDIATE medical attention.

## **4.2 Both acute and delayed symptoms and effects**

none known

## **4.3 Indication of immediate medical attention and special treatment**

No special handling instructions needed.

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## **5. Fire-fighting measures**

### **5.1 Extinguishant**

Suitable: Carbon dioxide, water spray, dry chemical, foam

Avoid: Full water jet

### **5.2 Special hazards arising from the substance or mixture Hazards**

none known

### **5.3 Advice for firefighters**

No special Advice needed

## **6. Accidental release measures**

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

### **6.2 Environmental protection measures**

### **6.3 Methods and material for containment and cleaning**

Pick up mechanically

The absorbed material in accordance with section on waste disposal.

### **6.4 Reference to other sections**

No further be observed.

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## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Accord with the putting and clicking of standard management of the storage

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## 7.2 Conditions for safe storage, including any incompatibilities

Avoid High Temperature at place of storage

### Information on storage conditions

Ensure thorough ventilation of stores and work areas. Container after removal of product again immediately, because product takes up the humidity of the air. Avoid contact with eyes and skin contact.

## 7.3 Specific end use

### Industry and sector-specific guidelines

There are to take measures against electrostatic charging and for good ventilation.

## 8. Limiting and monitoring exposure / personal protective equipment

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits in the workplace and / or biological limit values Occupational Exposure Limits (OEL) Germany

None

### 8.2 Limiting and monitoring exposure

Technical measures and the selection of appropriate work processes have priority over the use personal protective equipment. The personal protective equipment varies depending on the amount and concentration set of hazardous substances in the workplace.

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation of the work space and / or suction at the workplace. the floor should not have a floor drain. Provide workplace washing facilities. Eyewash or Provide eye wash bottle.

#### 8.2.2 Individual protection measures - personal protective equipment

The personal protective equipment varies depending on the amount and concentration of hazardous substances at the Establish workplace. Recommendation dustproof protective clothing, apron or lab coat Wear. General protective and hygiene measures - see Section 7.1

### Eye / face protection

Safety glasses with side-shields conforming to EN 166 - is recommended

### Skin Protection

Handle with gloves. Preventive skin protection recommended.

### Gloves

Glove material: butyl rubber  
Layer thickness (mm): 0.5mm (Category III)  
Breakthrough time (min.): <480min (EN374)

### Body protection

Not needed - Wearing a lab coat is recommended.

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## **Respiratory Protection**

Not needed - no requirements.

## **Technical risks:**

Not needed - no requirements.

## **8.2.3 Delimitation and monitoring of environmental exposure**

See Chapter 6 and 7

## **9. Physical and Chemical Properties**

### **9.1 Information on basic physical and chemical properties**

#### **Appearance**

<b>- Physical state:</b>	Paste
<b>- Colour:</b>	Gray
<b>odor:</b>	Slight odor
<b>Odor threshold:</b>	not applicable
<b>pH:</b>	7.0-7.3
<b>Melting point / freezing point:</b>	not determined
<b>Initial boiling point and boiling range:</b>	not determined
<b>Flash point:</b>	not determined
<b>Evaporation rate:</b>	< 1 (Synthetic paraffin), (Butyl Acetate=1)
<b>Flammability (solid, gaseous):</b>	not determined
<b>Upper / lower flammability or explosive limits:</b>	not applicable
<b>Vapor pressure:</b>	Neglibile at (25 degrees C)
<b>Vapor density:</b>	>1 (Synthetic paraffin)
<b>relative density:</b>	3.7
<b>Solubility (ies):</b>	not applicable
<b>Partition coefficient: n-octanol / water:</b>	not applicable not determined
<b>Auto-ignition temperature:</b>	not applicable
<b>Decomposition temperature:</b>	not determined
<b>Viscosity:</b>	120-170 Pas
<b>Explosive properties:</b>	not applicable
<b>Oxidising properties:</b>	not applicable

### **9.2 other Information**

None

## **10. Stability and reactivity**

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

### **10.1 Reactivity**

When properly used, not known.

### **10.2 Chemical Stability**

The product is stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

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When the product is heated above decomposition temperature toxic vapors is possible.

## **10.4 Conditions to avoid**

Burning off the direct fire source

## **10.5 Incompatible materials**

not determined

## **10.6 Hazardous decomposition products**

No known dangerous decomposition products.

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## **11. Toxicological information**

### **11.1 Information on toxicological effects**

#### **acute toxicity**

Not available, according to calculation method of the Preparations Directive.

#### **Skin corrosion / irritation to the skin**

not determined

#### **serious eye damage / eye irritation**

not determined

#### **Respiratory sensitization / skin**

not determined

#### **Germ cell mutagenicity**

not determined

#### **Carcinogenicity**

not determined

#### **reproductive toxicity**

not determined

#### **specific target organ toxicity after single exposure**

not determined

#### **specific target organ toxicity after repeated exposure**

not determined

#### **Aspiration**

not determined

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## **12. Ecological information**

### **12.1 Ecotoxicity**

None

### **12.2 Persistence and degradability**

None

### **12.3 Bioaccumulative**

not determined

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## 12.4 Mobility in soil

not determined

## 12.5 Results of PBT and vPvB assessment

not determined

## 12.6 Other adverse effects

Absorbable organic bound halogens (AOX):  
The product contains no organically-bound halogen.

### Additional information:

Other ecotoxicological advice: The product was not tested. The statement has been derived from the properties of the individual components.

Prevent product from entering untreated into natural waters.

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## 13. Disposal

### 13.1 Waste treatment methods

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

#### Treatment of contaminated packaging

Non-contaminated packaging may be recycled  
Are fed Performs.

#### Waste code according to the Waste Catalogue (EWC)

070708 \* Other still bottoms and reaction residues  
150102 \* plastic packaging

#### Special precautions

Contact with biological waste should be avoided.

#### Relevant EU or other regulations

no application

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## 14. Transport information

Not Restricted under IATA RERULATION

### 14.1 UN-Number

None needed

### 14.2 UN proper shipping name

**ADR / RID**

Not needed

**IMDG-Code / ICAO-TI / IATA-DGR**

Not needed

### 14.3 Transport hazard class

none

### 14.4 Packaging group

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## 14.5 environmental hazards

Labelling not required for containers smaller 5kg / 5L

### Indicator environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:  Yes /  No

Marine Pollutant:  yes /  no

## 14.6 Special precautions for user

See Chapter 6-8

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Delivery takes place only in compliance with traffic laws and appropriate packaging.  
Possible national deviations in other countries are not considered.

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## 15. Legislation

### 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:**  
None Available

#### National regulations as

**Water hazard class**  
Not applicable

**Solvent Ordinance (31 BImSchV)**  
Not applicable

**Störfallverordnung (12 BImSchV)**  
Nicht anwendbar

**Technical Instructions on Air Quality (TA Luft)**  
5.2.5 Organic Substances

#### Other relevant provisions

**Hazardous Substances Ordinance - Ordinance on Hazardous Materials 2010: Washing and Cleansing Agents Act WRMG;**



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**Household water neck Act - WHG; TRG300; Technical Rule; 200, 220, 615.900, 905**

## **15.2 Chemical Safety Assessment**

Not applicable

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## **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.

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