

**Duronaut**

Revision date: 08.10.2024

Product code: TG-014

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

Duronaut

**Further trade names**

Article no: TG-D-006 , TG-D-002

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

Thermal compound application

**Uses advised against**

Only use for the intended purpose.

**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

Telefax: +49-321-21134793

E-mail: support@thermal-grizzly.com

Internet: http://thermal-grizzly.com/

**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**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

**2.2. Label elements****2.3. Other hazards**

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.1. Mixtures****Chemical characterization**

The product is composed of the ingredients listed below and other non-hazarduous additives.

**Hazardous components**

CAS-No.	Chemical Name			Quantity in %
	EC-No.	Index-No.	REACH-No.	
	GHS-Classification			
7429-90-5	Aluminium			55-65
	231-072-3	013-001-00-6		
63148-62-9	Polysiloxanes, di-Me, Me vinyl, vinyl group-terminated			10-20
1314-13-2	Zinc oxide			15-25
	215-222-5			

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

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

First aider: Pay attention to self-protection!

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of doubt see doctor. If unconscious place in recovery position and seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

**After contact with eyes**

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.

**After ingestion**

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately.

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

No known symptoms to date.

**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**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

**Unsuitable extinguishing media**

High power water jet.

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

Heating causes rise in pressure with risk of bursting.

In case of fire may be liberated: Carbon monoxide. Carbon dioxide.

**5.3. Advice for firefighters**

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal precautions: refer to section 8

Disposal: see section 13

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

Personal precautions: refer to section 8 Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Provide adequate ventilation, especially in confined areas.

**Further information on handling**

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Keep locked up and out of the reach of children.

**Hints on joint storage**

Keep away from food, drink and animal feeding stuffs.

**Further information on storage conditions**

Protect from sunlight and heat sources. Avoid ignition sources.

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

For cleaning adhesive residues (PU foam) from tools.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

**Eye/face protection**

Tightly fitting safety glasses with side shields.

**Hand protection**

Protect skin by using skin protective cream. Wear suitable gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended material: Butyl rubber.

Thickness of glove material:  $\geq 0,5$  mm.

Breakthrough time:  $< 480$  min

**Skin protection**

protection suit

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**Respiratory protection**

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.  
Recommended filtering device for short-term use: like: EN 14387, Filter type AX

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

Physical state:	paste-like	
Colour:	grey	
Odour:	slightly characteristic	
pH-Value:		7,0-7,3

**Changes in the physical state**

Melting point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available

**Flammability**

Solid:	No data available
Gas:	No data available

**Explosive properties**

The product is not explosive, however, formation of explosive mixtures are possible.

Lower explosion limits:	No data available
Ignition temperature:	No data available

**Autoignition temperature**

Solid:	No data available
Gas:	No data available
Decomposition temperature:	No data available

**Oxidizing properties**

No data available	
Vapour pressure:	No data available
Density:	No data available
Water solubility:	Immiscible
Partition coefficient:	No data available
Viscosity / dynamic:	No data available
Viscosity / kinematic:	No data available
Vapour density:	not determined

**9.2. Other information**

No data available

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

No dangerous reactivity under regular conditions.

**10.2. Chemical stability**

The product is stable under regular conditions.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

heat. frost.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

It may produce hazardous fumes like carbon monoxide or carbon dioxide.

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

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

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

Zinc oxide is very toxic to aquatic organisms.

Acute toxicity (e.g., for fish, daphnia, algae): LC50/EC50 (data available, if applicable).

Chronic toxicity: Long-term very toxic to aquatic organisms (e.g., NOEC data, if available).

**12.2. Persistence and degradability**

Zinc oxide is not biodegradable and is persistent in the environment.

**12.3. Bioaccumulation potential**

Zinc oxide can accumulate in aquatic organisms (bioaccumulative potential).

**12.4. Mobility in soil**

Zinc oxide settles in aqueous systems and can accumulate in soil and sediments.

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

Zinc oxide does not meet the criteria for PBT (persistent, bioaccumulative, and toxic) or vPvB (very persistent and very bioaccumulative).

**12.6. Other adverse effects**

No other known adverse effects.

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

Disposal according to official regulations.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1 UN number:**

No dangerous good in sense of this transport regulation

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**14.2 UN proper shipping name:** No dangerous good in sense of this transport regulation  
**14.3 Transport hazard class(es):** No dangerous good in sense of this transport regulation  
**14.4 Packing group:** No dangerous good in sense of this transport regulation

**Inland waterways transport (ADN)**

**14.1 UN number:** No dangerous good in sense of this transport regulation  
**14.2 UN proper shipping name:** No dangerous good in sense of this transport regulation  
**14.3 Transport hazard class(es):** No dangerous good in sense of this transport regulation  
**14.4 Packing group:** No dangerous good in sense of this transport regulation

**Marine transport (IMDG)**

**14.1 UN number:** No dangerous good in sense of this transport regulation  
**14.2 UN proper shipping name:** No dangerous good in sense of this transport regulation  
**14.3 Transport hazard class(es):** No dangerous good in sense of this transport regulation  
**14.4 Packing group:** No dangerous good in sense of this transport regulation

**Air transport (ICAO-TI/IATA-DGR)**

**14.1 UN number:** No dangerous good in sense of this transport regulation  
**14.2 UN proper shipping name:** No dangerous good in sense of this transport regulation  
**14.3 Transport hazard class(es):** No dangerous good in sense of this transport regulation  
**14.4 Packing group:** No dangerous good in sense of this transport regulation

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No special precautions known.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

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

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable  
Regulation (EC) No. 648/2004 (Detergents regulation): not applicable  
Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable  
Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).  
This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none  
This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

**National regulatory information**

Water hazard class (D): - - non-hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

Version 1,00 - Creation - 27.07.2020  
Version 1,01 - General update - 30.08.2020  
Version 1,02 - General update - 15.09.2020  
Version 1,03 - General update - 30.09.2020

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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
BlmSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act  
CAS: Chemical Abstracts Service  
EC: Effective Concentration  
EG: European Community (Europäische Gemeinschaft)  
EN: European Norm  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Code for Dangerous Goods  
CLP: Classification, Labeling, Packaging  
IUCLID: International Uniform Chemical Information Database  
LC: Lethal concentration  
LD: Lethal dose  
log Kow: Octanol/water partition coefficient  
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
PBT: Persistent, bio-cumulative, toxic  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
TRGS: Technische Regeln für Gefahrstoffe  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bio-cumulative  
VwVwS: Administrative Regulation for Water Pollutants  
WGK: German Water Hazard Class  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
TLV: Threshold Limiting Value  
STOT: Specific Target Organ Toxicity

**Further information**

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*