

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Thermal paste TG2500

Revision date: 01/21/2025

Product code: LIS-004_US

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1. Identification**Product identifier**

Thermal paste TG2500

Further trade names

use in:

BK032 be quiet! Shadow Rock Slim 2

BK003 be quiet! Shadow Rock TF 2

BK002 be quiet! Shadow Rock LP

BK033 be quiet! Pure Rock 2 FX

BK007 be quiet! Pure Rock 2 Black

BK006 be quiet! Pure Rock 2

BK030 be quiet! Pure Rock Slim 2

BK034 be quiet! Pure Rock LP

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

Thermal paste

The product is intended for consumer use.

Commercial users

Uses advised against

The product is only to be used for the intended application.

Details of the supplier of the safety data sheet**Manufacturer**

Company name: Listan GmbH
Street: Wilhelm-Bergner-Straße 11c
Place: D-21509 Glinde
Telephone: +49 (0)40/7367686-0
E-mail (Contact person): service@bequiet.com
Internet: <https://www.bequiet.com/>

Supplier

Company name: Listan USA Inc.
Street: 663 Brea Canyon Rd. #1
Place: USA-CA 91789 Walnut
Telephone: +1 833 423 7843
E-mail: service.na@bequiet.com

Emergency phone number: +1 833 423 7843 Office hours only.**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

Label elements**Hazards not otherwise classified**

Special danger of slipping by leaking/spilling product.

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

3. Composition/information on ingredients**Mixtures**

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Chemical characterization

The product does not contain dangerous substances to be mentioned in section 3.

Relevant ingredients

none (according to 29 CFR 1910.1200(g))

4. First-aid measures**Description of first aid measures****General information**

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air. Remove affected persons from the danger zone. In case of respiratory tract irritation, consult a physician.

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

Remove contact lenses. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Seek medical attention if problems persist.

Most important symptoms and effects, both acute and delayed

No known symptoms to date.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.
Carbon dioxide (CO₂). Foam. Extinguishing powder. Water fog.

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the chemical

In case of fire may be liberated: Irritating/poisonous gasses and vapours.

Special protective equipment and precautions for fire-fighters

If necessary use self-contained breathing apparatus and protective clothing.

Additional information

Do not allow to enter into surface water or drains. Use water spray/stream to protect personnel and to cool endangered containers.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

Consider the usual precautions for handling chemicals. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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Methods and material for containment and cleaning up**For containment**

Take up mechanically, placing in appropriate containers for disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Cleaning agent: Isopropanol

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

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

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Further information on handling

When using do not eat, drink, smoke, sniff.

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

Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container.

Hints on joint storage

Keep away from: acid. Base.

Protect from direct sunlight.

8. Exposure controls/personal protection**Control parameters****Exposure limits**

CAS No	Substance	ppm	mg/m ³	Category	Origin
7429-90-5	Aluminum (total)	-	10	TWA (8 h)	REL
1314-13-2	Zinc oxide (Dust)	-	5	TWA (8 h)	REL
		-	C 15	Ceiling	REL
1314-13-2	Zinc oxide (Fume)	-	5	TWA (8 h)	REL
		-	10	STEL (15 min)	REL
1314-13-2	Zinc oxide fume	-	5	TWA (8 h)	PEL
1314-13-2	Zinc oxide Respirable fraction	-	5	TWA (8 h)	PEL
1314-13-2	Zinc oxide Total dust	-	15	TWA (8 h)	PEL

Additional advice on limit values

Currently there are no further exposure limits available.

Exposure controls

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Appropriate engineering controls

Provide for sufficient ventilation and punctiform suction at critical points.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly fitting safety goggles.

Standards: EN ISO 16321-1 or 29 CFR 1910.133

Hand protection

The selection of appropriate hand protection should be based on an evaluation of the performance characteristics of the hand protection relative to the task(s) to be performed, conditions present, duration of use, and the hazards and potential hazards identified, as outlined in 29 CFR 1910.138(a).

Protect skin by using skin protective cream. In case of prolonged or frequently repeated skin contact: Wear chemically resistant gloves.

Suitable material: NBR (Nitrile rubber).

penetration time (maximum wearing period): >480 minutes

Layer thickness: 0,11 mm

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

exceeding exposure limit values

Suitable respiratory protective equipment: half-mask with filter EN 149 or 29 CFR 1910.134 .

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	paste-like (liquid)
Color:	gray
Odor:	odorless
Melting point/freezing point:	no data available
Boiling point or initial boiling point and boiling range:	>250 °C
Flammability:	no data available
Lower explosion limits:	no data available
Upper explosion limits:	no data available
Flash point:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH-Value:	no data available
Viscosity / kinematic:	no data available
Water solubility:	no data available
Solubility in other solvents	no data available
Dissolution rate:	no data available
Partition coefficient n-octanol/water:	no data available
Dispersion stability:	no data available
Vapor pressure:	no data available
Density:	2,5 g/cm³

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Relative density:	no data available
Bulk density:	no data available
Relative vapour density:	no data available
Particle characteristics:	no data available

Other information**Information with regard to physical hazard classes**

Explosive properties

no data available

Self-ignition temperature

Solid:

no data available

Gas:

no data available

Oxidizing properties

no data available

Other safety characteristics

Solvent separation test:

no data available

Solvent content:

no data available

Sublimation point:

no data available

Softening point:

no data available

Viscosity / dynamic:

no data available

Further Information

no data available

10. Stability and reactivity**Reactivity**

No dangerous reactivity under regular conditions.

Chemical stability

The product is stable under regular conditions.

Possibility of hazardous reactions

No dangerous reactions to be expected if used properly.

Conditions to avoid

No data available

Incompatible materials

Strong bases. Strong acid.

Hazardous decomposition products

In case of fire may be liberated: Irritating/poisonous gasses and vapours.

11. Toxicological information**Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

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Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

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

Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

12. Ecological information**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

Other adverse effects

No data available.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains.

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

Recommended cleaning agent: Water (with cleaning agent)

14. Transport information**U.S. DOT 49 CFR 172.101**

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UN number or ID number:

UN 3082

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)

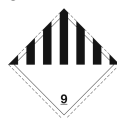
Transport hazard class(es):

9

Packing group:

III

Hazard label:



Marine transport (IMDG)

UN number or ID number:

UN 3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)

Transport hazard class(es):

9

Packing group:

III

Hazard label:



Special Provisions:

274 335 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

UN 3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)

Transport hazard class(es):

9

Packing group:

III

Hazard label:



Special Provisions:

A97 A158 A197 A215

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes



Danger releasing substance:

zinc oxide

Special precautions for user

No special precautions known.

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

not applicable

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15. Regulatory information**U.S. Regulations****National Inventory TSCA**

All components are listed in the TSCA inventory or exempted.

National regulatory information

SARA Section 311/312 Hazards:

aluminium powder (pyrophoric) (7429-90-5): Fire hazard, Reactive

State Regulations**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Observe in addition any national regulations!

This mixture is classified as not hazardous according to Regulation 29 CFR Part 1910.1200.

16. Other information**Hazardous Materials Identification System (HMIS)**

Health: 0

Flammability: 0

Physical Hazard: 0

Personal Protection: B

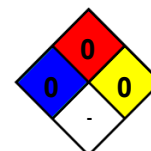
NFPA Hazard Ratings

Health: 0

Flammability: 0

Reactivity: 0

Unique Hazard: -

**Changes**

Revision date: 01/21/2025

Revision No: 1,00

Version 1,00 - 08.11.2024 - first creation

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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
DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
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
ISO: Norm of the International Standards Organization
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
UN: United Nations
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
AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Other data

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)