



Gre. Gleitmittel DX

Safety Data Sheet

according to GB/T 16483 and GB/T 17519

Version 2.0

Revision date: 2025/07/08

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Supersedes: 2023/11/24

SECTION 1 Chemical product and company identification

Product identifier

Product form	Mixture
Name	Gre. Gleitmittel DX
Product code	BU Direct Fastening
Chemical Chinese name	-
Chemical English name	-
Recommended use of the chemical	Ceramic Paste

Details of the supplier of the safety data sheet

Supplier Hilti (China) Ltd. 8F, Tower 2, No.58 Yao Yuan Rd. Pudong District 200126 Shanghai - China T +86 21 6016 7316	Department issuing data specification sheet Hilti AG Feldkircherstraße 100 9494 Schaan - Liechtenstein T +423 234 2111 product.compliance-direct.fastening@hilti.com
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Emergency telephone number

Emergency number	Emergency CONTACT (24-Hour-Number) GBK GmbH Global Regulatory Compliance +49 (0)6132-84463
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Country	Organisation/Company	Address	Emergency number
China	中国境内化学事故应急咨询电话 / chemical accident emergency consultation service hotline (24/7)		+86 532 83889090

SECTION 2 Hazards identification

Emergency overview

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Treat symptomatically. white. None under recommended storage and handling conditions (see section 7). Under normal conditions of storage and use, hazardous decomposition products should not be produced. Dust/Mist. characteristic. The product is non-reactive under normal conditions of use, storage and transport. Non flammable. No dangerous reactions known under normal conditions of use. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Very toxic to aquatic life with long lasting effects

GHS hazard classification

Environmental hazards	Hazardous to the aquatic environment - Acute hazard, Category 1 Hazardous to the aquatic environment - Chronic hazard, Category 1
Other hazards not mentioned above are Not applicable or No data is available.	

Label elements

Hazard pictograms (GHS CN)



Signal word (GHS CN)

Warning.

Hazard statements (GHS CN)

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS CN)

Prevention measures	P273 - Avoid release to the environment.
Incident response	P391 - Collect spillage.
Disposal	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Physical and chemical hazards

No additional information available

Health hazards

No additional information available

Environmental hazards

Very toxic to aquatic life with long lasting effects

Other hazards

No additional information available

SECTION 3 Composition/information on ingredients

Product form

Mixture.

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Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
zinc oxide	≤ 30	1314-13-2

SECTION 4 First-aid measures

Description of necessary first-aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Wash skin with plenty of water
First-aid measures after eye contact	Rinse eyes with water as a precaution
First-aid measures after ingestion	Rinse mouth out with water. Call a poison center or a doctor if you feel unwell

Most important symptoms/effects

No additional information available

Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or treatment	Treat symptomatically
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SECTION 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire Water spray Dry powder Foam Carbon dioxide
Unsuitable extinguishing media	No additional information available

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Specific hazards

Hazardous decomposition products in case of fire

Toxic fumes may be released
On burning: release of harmful/irritant gases/vapours
(When a package contains a combination of lithium batteries contained in equipment and lithium batteries packed with equipment, the following requirements apply for the purposes of package marking and documentation:
(a) the package shall be marked "UN 3091" or "UN 3481", as appropriate. If a package contains both lithium ion batteries and lithium metal batteries packed with and contained in equipment, the package shall be marked as required for both battery types. However, button cell batteries installed in equipment (including circuit boards) need not be considered;
(b) the transport document shall indicate "UN 3091 LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT" or "UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT", as appropriate. If a package contains both lithium metal batteries and lithium ion batteries packed with and contained in equipment, then the transport document shall indicate both "UN 3091 LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT" and "UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT". Zinc oxide)

Advice for firefighters and protective measures

Firefighting instructions

No additional information available

Protection during firefighting

Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing

Other information

Collect contaminated extinguishing water separately and must not enter the sewage system

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

No additional information available

Personal Precautions, Protective Equipment and Emergency Procedures

No additional information available

For non-emergency personnel

Emergency procedures

Ventilate spillage area

For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment

For further information refer to section 8: "Exposure controls/personal protection"

Environmental precautions

Avoid release to the environment

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Methods and material for containment and cleaning up

Methods for cleaning	No additional information available
For containment	Collect spillage.

Prevention measures for secondary accidents

Prevention Measures for Secondary Accidents	No additional information available
Other information	Dispose of materials or solid residues at an authorized site

SECTION 7 Handling and storage

Handling

Precautions for safe handling	Ensure good ventilation of the work station Wear personal protective equipment
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product
Local and general ventilation	No additional information available

Storage

Storage conditions	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Material used in packaging/containers	No additional information available

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

zinc oxide (1314-13-2)

China - Occupational Exposure Limits

Local name	氧化锌 # Zinc oxide
OEL PC-TWA	3 mg/m ³
OEL PC-STEL	5 mg/m ³
Regulatory reference	GBZ 2.1-2019

Biological limit values

No additional information available

Monitoring methods

No additional information available

Appropriate engineering controls

Ensure good ventilation of the work station

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Personal protective equipment

Environmental exposure controls	Avoid release to the environment.
Hand protection	In case of repeated or prolonged contact wear gloves Nitrile rubber
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s)	



SECTION 9 Physical and chemical properties

Physical state	Liquid
Appearance	No data available
Colour	white
Odour	characteristic
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	> 260 ° C
Auto-ignition temperature	Non oxidizing
Decomposition temperature	No data available
Flammability	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	1.39 g/cm ³
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Radioactive	No
Particle size	Not available

SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions
Reactivity	The product is non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use

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Conditions to avoid	None under recommended storage and handling conditions (see section 7)
Incompatible materials	No additional information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced
Other properties	No additional information available

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral)	No data available (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	No data available (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	No data available (Based on available data, the classification criteria are not met)

zinc oxide (1314-13-2)

LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat (Dust/Mist)	> 5.7 mg/l/4h (OECD 403 method)

Skin corrosion/irritation

Skin corrosion/irritation	No data available (Based on available data, the classification criteria are not met)
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Serious eye damage/eye irritation

Serious eye damage/irritation	No data available (Based on available data, the classification criteria are not met)
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Respiratory or skin sensitisation

Respiratory or skin sensitisation	No data available (Based on available data, the classification criteria are not met)
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Germ cell mutagenicity

Germ cell mutagenicity	No data available (Based on available data, the classification criteria are not met)
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Carcinogenicity

Carcinogenicity	No data available (Based on available data, the classification criteria are not met)
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Reproductive toxicity

Reproductive toxicity	No data available (Based on available data, the classification criteria are not met)
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STOT - single exposure

STOT - single exposure No data available (Based on available data, the classification criteria are not met)

STOT - repeated exposure

STOT - repeated exposure No data available (Based on available data, the classification criteria are not met)

Aspiration hazard

Aspiration hazard No data available (Based on available data, the classification criteria are not met)

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Density 1.39 g/cm³

SECTION 12 Ecological information

Ecotoxicity

Ecology - general Very toxic to aquatic life with long lasting effects.
 Hazardous to the aquatic environment, short-term (acute) Very toxic to aquatic life.
 Hazardous to the aquatic environment, long-term (chronic) Very toxic to aquatic life with long lasting effects.

zinc oxide (1314-13-2)

LC50 - Fish [1]	1.55 mg/l (96 h; Danio rerio)
EC50 - Crustacea [1]	1 mg/l (48 h; Daphnia magna; (OECD 202 method))
EC50 72h - Algae [1]	0.136 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
NOEC chronic fish	0.039 mg/l (30 d; Oncorhynchus mykiss; (OECD 215 method); Read-across)
NOEC chronic crustacea	0.04 mg/l (21 d; Daphnia magna; (OECD 211 method); Read-across)
NOEC chronic algae	0.01 mg/l (4 d; Dunaliella tertiolecta; IRSA-CNR; Read-across)

Persistence and degradability

zinc oxide (1314-13-2)

Persistence and degradability	Not applicable
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Bioaccumulative potential

zinc oxide (1314-13-2)

Bioaccumulative potential	Not applicable
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Mobility in soil

zinc oxide (1314-13-2)

Bioaccumulative potential	Not applicable
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Other adverse effects

Classification procedure (Ozone)	No data available (Based on available data, the classification criteria are not met)
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Results of PBT and vPvB assessment

PBT	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
vPvB	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 13 Disposal considerations

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Contaminated container and packaging	No additional information available
Additional information	No additional information available
Product/Packaging disposal recommendations	Must not be disposed together with household garbage Do not discharge into drains Dispose in a safe manner in accordance with local/national regulations Refer to manufacturer/supplier for information on recovery/recycling
Ecological waste information	Avoid release to the environment.

SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA

Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
3082	3082	3082
Proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	Environmentally hazardous substance, liquid, n.o.s. (zinc oxide)
Transport document description		
UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), Class 9, PG III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (zinc oxide), 9, III
Transport hazard class(es)		
9	9	9

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Overland transport (JT/T 617)	Transport by sea	Air transport
		
Packing group		
III.	III.	III.
Environmental hazards		
Dangerous for the environment Yes	Dangerous for the environment Yes Marine pollutant Yes	Dangerous for the environment Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg), The environmentally hazardous substances mark is therefore not required according to ADR Special Provision 375, IATA-DGR A197 and IMDG-Code 2.10.2.7.		

Special transport precautions

Overland transport (JT/T 617)

Classification code (JT/T 617)	M6.
Special provisions (JT/T 617)	274, 335, 375, 601.
Limited quantities (JT/T 617)	5L.
Excepted quantities (JT/T 617)	E1.
Packing instructions (JT/T 617)	P001, IBC03, LP01, R001.
Special packing provisions (JT/T 617)	PP1.
Mixed packing provisions (JT/T 617)	MP19.
Portable tank and bulk container instructions (JT/T 617)	T4.
Portable tank and bulk container special provisions (JT/T 617)	TP1, TP29.
Tank codes (JT/T 617)	LGBV.
Vehicle for tank carriage (JT/T 617)	AT.
Transport category (JT/T 617)	3.
Tunnel restriction code (JT/T 617)	E.
Special provisions for carriage - Packages (JT/T 617)	V12.

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Special provisions for carriage - Loading, unloading and handling (JT/T 617) CV13.

Hazard identification number (JT/T 617) 90.

Orange-coloured plate (JT/T 617)



Transport by sea

Special provisions (IMDG) 274, 335, 375, 969.

Limited quantities (IMDG) 5 L.

Excepted quantities (IMDG) E1.

Packing instructions (IMDG) LP01, P001.

Special packing provisions (IMDG) PP1.

IBC packing instructions (IMDG) IBC03.

Tank instructions (IMDG) T4.

Tank special provisions (IMDG) TP1, TP29.

EmS-No. (Fire) F-A.

EmS-No. (Spillage) S-F.

Stowage category (IMDG) A.

Air transport

PCA Excepted quantities (IATA) E1.

PCA Limited quantities (IATA) Y964.

PCA limited quantity max net quantity (IATA) 30kgG.

PCA packing instructions (IATA) 964.

PCA max net quantity (IATA) 450L.

CAO packing instructions (IATA) 964.

CAO max net quantity (IATA) 450L.

Special provisions (IATA) A97, A158, A197, A215.

ERG code (IATA) 9L.

SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in China (IECSC) Contains listed substance(s)
Zinc oxide (CAS-No. 1314-13-2)

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

Contains Hazardous Chemical(s)



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Catalogue of Hazardous
Chemicals (2015)

zinc oxide

Considered as Hazardous Chemical(s)

Law of the People's Republic of China on the Prevention and Control of Occupational
Diseases

Catalogue for Classification
of Hazardous Factors of
Occupational Diseases

Contains listed substance(s)

Zinc oxide (CAS-No. 1314-13-2)

Regulation on the Administration of Precursor Chemicals (Decree 445 of the State
Council)

Catalogue of Precursor
Chemicals

SECTION 16 Other information

Data sources

Supplier's safety documents

European Chemicals Agency, <http://echa.europa.eu/>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.