

# Gre. Gleitmittel DX

## Safety Data Sheet

according to SS 586 Part 3 (2014)  
Issue date: 24.11.2023

Revision date: 24.11.2023

Supersedes:

Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

Name Gre. Gleitmittel DX  
Product code BU Direct Fastening

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use Ceramic Paste

#### 1.4. Supplier's details

##### Supplier

Hilti Far East Private Ltd.  
80 Pasir Panjang Road, #16-83/84 Mapletree Business City Singapore  
Singapur 117372  
T +65 6777 7887 - F +65 6777 3057  
[sg-customerservice@hilti.com](mailto:sg-customerservice@hilti.com)

##### Department issuing data specification sheet

Hilti AG  
Feldkircherstraße 100 Schaan Liechtenstein 9494  
T +423 234 2111  
[df-hse@hilti.com](mailto:df-hse@hilti.com)

#### 1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance  
+49 (0)6132-84463

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Environmental hazards Hazardous to the aquatic environment – Acute Hazard, Category 1  
Hazardous to the aquatic environment – Chronic Hazard, Category 1

#### 2.2. GHS label elements including precautionary statements

##### Hazard pictograms (GHS SG)



##### Signal word (GHS SG)

Warning

##### Hazard statements (GHS SG)

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

##### Precautionary statements

##### Prevention

P273 : Avoid release to the environment.

##### 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.

#### 2.3. Other hazards which do not result in classification

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier
zinc oxide	-	≤ 30	OZn	CAS-No.: 1314-13-2

## SECTION 4: First-aid measures

### 4.1. Description of necessary first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin contact	Wash skin with plenty of water.
Eye contact	Rinse eyes with water as a precaution.
Ingestion	Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

No additional information available

### 4.3. Indication of immediate medical attention and special treatment needed

Other medical advice or treatment                      Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media                      Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire                      Toxic fumes may be released. On burning: release of harmful/irritant gases/vapours (zinc oxide).

### 5.3. Special protective actions for fire fighters

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

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

No additional information available

#### 6.1.1. For non-emergency personnel

Emergency procedures                      Ventilate spillage area.

#### 6.1.2. 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".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment                      Collect spillage.

Methods for cleaning up                      Take up liquid spill into absorbent material.

Other information                      Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe 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.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions      Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters/Occupational exposure limits

zinc oxide (1314-13-2)	
Singapore - Occupational Exposure Limits	
Local name	Zinc oxide
PEL (OEL TWA)	5 mg/m <sup>3</sup> Fume 10 mg/m <sup>3</sup> Dust
OEL STEL	10 mg/m <sup>3</sup> Fume
Regulatory reference	WSH (General Provision) Regulation 2014

#### 8.2. Monitoring

No additional information available

#### 8.3. Appropriate engineering control measures

Appropriate engineering controls      Ensure good ventilation of the work station.

#### 8.4. Personal protection

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)



Environmental exposure controls      Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state      Liquid  
 Colour      white  
 Odour      characteristic  
 Odour threshold      No data available  
 pH      No data available  
 Relative evaporation rate (butylacetate=1)      No data available  
 Melting point      Not applicable  
 Freezing point      No data available  
 Boiling point      No data available

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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
Relative density	No data available
Density	1.39 g/cm <sup>3</sup>
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Acute toxicity

Acute toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	Not classified (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	Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)

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STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)

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Density	1.39 g/cm <sup>3</sup>

## SECTION 12: Ecological information

### 12.1. Toxicity

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)

### 12.2. Persistence and degradability

Gre. Gleitmittel DX	
Persistence and degradability	No additional information available
zinc oxide (1314-13-2)	
Persistence and degradability	Not applicable.

### 12.3. Bioaccumulative potential

Gre. Gleitmittel DX	
Bioaccumulative potential	No additional information available
zinc oxide (1314-13-2)	
Bioaccumulative potential	Not applicable.

### 12.4. Mobility in soil

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Mobility in soil	No additional information available

### 12.5. Other adverse effects

Ozone	Not classified (Based on available data, the classification criteria are not met)
Other adverse effects	No additional information available

## SECTION 13: Disposal considerations

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	Should not be landfilled with household waste. Do not discharge into the sewer. Dispose in a safe manner in accordance with local/national regulations. Refer to manufacturer/supplier for information on recovery/recycling.

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### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

UN-No. (ADR)	UN 3082
UN-No. (IMDG)	UN 3082
UN-No. (IATA)	UN 3082
UN-No. (ADN)	UN 3082
UN-No. (RID)	UN 3082

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-)
Transport document description (IMDG)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT
Transport document description (IATA)	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
Transport document description (ADN)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport document description (RID)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR)	9
Danger labels (ADR)	9



##### IMDG

Transport hazard class(es) (IMDG)	9
Danger labels (IMDG)	9



##### IATA

Transport hazard class(es) (IATA)	9
Danger labels (IATA)	9



##### ADN

Transport hazard class(es) (ADN)	9
Danger labels (ADN)	9



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### RID

Transport hazard class(es) (RID) 9  
 Danger labels (RID) 9



### 14.4. Packing group

Packing group (ADR) III  
 Packing group (IMDG) III  
 Packing group (IATA) III  
 Packing group (ADN) III  
 Packing group (RID) III

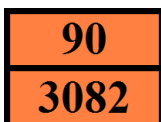
### 14.5. Environmental hazards

Dangerous for the environment Yes  
 Marine pollutant Yes  
 Other information 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.

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) M6  
 Special provisions (ADR) 274, 335, 375, 601  
 Limited quantities (ADR) 5I  
 Excepted quantities (ADR) E1  
 Packing instructions (ADR) P001, IBC03, LP01, R001  
 Special packing provisions (ADR) PP1  
 Mixed packing provisions (ADR) MP19  
 Portable tank and bulk container instructions (ADR) T4  
 Portable tank and bulk container special provisions (ADR) TP1, TP29  
 Tank code (ADR) LGBV  
 Vehicle for tank carriage AT  
 Transport category (ADR) 3  
 Special provisions for carriage - Packages (ADR) V12  
 Special provisions for carriage - Loading, unloading and handling (ADR) CV13  
 Hazard identification number (Kemler No.) 90  
 Orange plates



Tunnel restriction code (ADR) -

#### Transport by sea

Special provisions (IMDG) 274, 335, 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

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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

### Inland waterway transport

Classification code (ADN)	M6
Special provisions (ADN)	274, 335, 375, 601
Limited quantities (ADN)	5 L
Excepted quantities (ADN)	E1
Carriage permitted (ADN)	T
Equipment required (ADN)	PP
Number of blue cones/lights (ADN)	0

### Rail transport

Classification code (RID)	M6
Special provisions (RID)	274, 335, 375, 601
Limited quantities (RID)	5L
Excepted quantities (RID)	E1
Packing instructions (RID)	P001, IBC03, LP01, R001
Special packing provisions (RID)	PP1
Mixed packing provisions (RID)	MP19
Portable tank and bulk container instructions (RID)	T4
Portable tank and bulk container special provisions (RID)	TP1, TP29
Tank codes for RID tanks (RID)	LGBV
Transport category (RID)	3
Special provisions for carriage – Packages (RID)	W12
Special provisions for carriage - Loading, unloading and handling (RID)	CW13, CW31
Colis express (express parcels) (RID)	CE8
Hazard identification number (RID)	90

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

### 15.2. International regulations

No additional information available

### 15.3 Chemical inventory status

No additional information available



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### SECTION 16: Other information

Issue date	24/11/2023
Revision date	24/11/2023
Data sources	Supplier's safety documents. European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> .

SDS SG HILTI

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.