

Gre. Gleitmittel DX

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Issue date: 11/24/2023

Revision date: 11/24/2023

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

| | |
|--------------|---------------------|
| Product form | Mixture |
| Name | Gre. Gleitmittel DX |
| Product code | BU Direct Fastening |

1.2. Recommended use and restrictions on use

| | |
|-----------------|---------------|
| Recommended use | Ceramic Paste |
|-----------------|---------------|

1.3. Supplier

| Supplier | Department issuing data specification sheet |
|--|--|
| Hilti (Canada) Corp. | Hilti AG |
| Suite 700 | Feldkircherstraße 100 |
| 2360 Meadowpine Boulevard | Schaan, 9494 |
| Mississauga, Ontario, Ontario L5N 6S2 | Liechtenstein |
| Canada | T +423 234 2111 |
| T +1905 8139200 | df-hse@hilti.com |
| 1-800-363-4458 toll free - F +1 905 813 9009 | |

1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 101022 (USA domestic) 1 800 535 5053 or international (001) 352 323 3500 |
|------------------|--|

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|------------|--------------------------|--------------------|------|-------------------------|
| zinc oxide | zinc oxide | CAS-No.: 1314-13-2 | ≤ 30 | Not classified |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of 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. |

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

| | |
|-----------------------------------|------------------------|
| 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. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

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

5.4. Special protective equipment and precautions 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

6.2. Methods and materials 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. |

6.3. Reference to other sections

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

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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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|--|--|
| zinc oxide (1314-13-2) | |
| Canada (Alberta) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ Respirable |
| OEL STEL | 10 mg/m ³ Respirable |
| Regulatory reference | Alberta Regulation 191/2021 |
| Canada (Quebec) - Occupational Exposure Limits | |
| Local name | Zinc, oxide |
| VECD (OEL STEV) | 10 mg/m ³ Rd |
| VEMP (OEL TWAEV) | 2 mg/m ³ Rd |
| Regulatory reference | S-2.1, r. 13 - Regulation respecting occupational health and safety |
| Canada (British Columbia) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Manitoba) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ (R - Respirable particulate matter) |
| OEL STEL | 10 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Metal fume fever |
| Regulatory reference | ACGIH 2023 |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ (R - Respirable particulate matter) |
| OEL STEL | 10 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Metal fume fever |

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| | |
|--|--|
| zinc oxide (1314-13-2) | |
| Regulatory reference | ACGIH 2023 |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ (R - Respirable particulate matter) |
| OEL STEL | 10 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Metal fume fever |
| Regulatory reference | ACGIH 2023 |
| Canada (Nunavut) - Occupational Exposure Limits | |
| Local name | Zinc oxide, fume and dust |
| OEL TWA | 2 mg/m ³ (respirable fraction) |
| OEL STEL | 10 mg/m ³ (respirable fraction) |
| Regulatory reference | Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| Local name | Zinc oxide, fume and dust |
| OEL TWA | 2 mg/m ³ (respirable fraction) |
| OEL STEL | 10 mg/m ³ (respirable fraction) |
| Regulatory reference | Occupation Health and Safety Regulations R-039-2015 (R-013-2020) |
| Canada (Ontario) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ (R - Respirable fraction) |
| OEL STEL | 10 mg/m ³ (R - Respirable fraction) |
| Regulatory reference | Ontario Occupational Exposure Limits under Regulation 833 |
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| Local name | Zinc oxide |
| OEL TWA | 2 mg/m ³ (R - Respirable particulate matter) |
| OEL STEL | 10 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Metal fume fever |
| Regulatory reference | ACGIH 2023 |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| Local name | Zinc oxide, fume and dust |
| OEL TWA | 2 mg/m ³ (respirable fraction) |
| OEL STEL | 10 mg/m ³ (respirable fraction) |
| Regulatory reference | The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10 |

8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

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Environmental exposure controls Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

In case of repeated or prolonged contact wear gloves. Nitrile rubber

Eye protection:

Safety glasses. CSA Z94.3:20

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

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------|
| Physical state | Liquid |
| Appearance | No data available |
| Colour | white |
| Odour | characteristic |
| Odour threshold | No data available |
| pH | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Relative evaporation rate (ether=1) | 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 (solid, gas) | Not applicable |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Density | 1.39 g/cm ³ |
| Solubility | No data available |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Viscosity, kinematic | No data available |
| Explosive limits | No data available |

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | The product is non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reactions known under normal conditions of use. |
| 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. |
| Hardening time: | No additional information available |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---|
| 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 sensitization | 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) |
| 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) |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Hazardous to the aquatic environment, short-term (acute) | Not classified (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified (Based on available data, the classification criteria are not met) |

| | |
|------------------------|--|
| 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) |

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| | |
|------------------------|---|
| zinc oxide (1314-13-2) | |
| 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

| | |
|-------------------------------|-----------------|
| zinc oxide (1314-13-2) | |
| Persistence and degradability | Not applicable. |

12.3. Bioaccumulative potential

| | |
|---------------------------|-----------------|
| zinc oxide (1314-13-2) | |
| Bioaccumulative potential | Not applicable. |

12.4. 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) |
|-------|---|

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|---|
| 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. |
| Ecology - waste materials | Avoid release to the environment. |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|--|--|---|---|---|
| 14.1. UN number or ID number | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| 14.2. UN proper shipping name | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Environmentally hazardous substance, liquid, n.o.s. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III |

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| ADR | IMDG | IATA | ADN | RID |
|--|---|---|--|---|
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: 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. | | | | |

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 |

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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 |

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



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SECTION 15: Regulatory information

15.1. National regulations

zinc oxide (1314-13-2)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information

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Data sources Supplier's safety documents. European Chemicals Agency, <http://echa.europa.eu/>.

SDS CA 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.