

SECTION 1: Identification**1.1. Product identifier**

Product form : Mixture
Product name : Remedy HDD

1.2. Recommended use and restrictions on use

Recommended use : Additives
Restrictions on use : No data available

1.3. Supplier

DrilRite Chemical
LLC 702 Blackjack St
Winnsboro, TX 75494
United States
T 903-347-6797
www.drilrite.net

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300

SECTION 2: Hazard identification**2.1. Classification of the substance or mixture****Classification (GHS CA)**

| | | |
|--|------|---|
| Skin corrosion/irritation Category 2 | H315 | Causes skin irritation |
| Serious eye damage/eye irritation Category 1 | H318 | Causes serious eye damage |
| Carcinogenicity Category 1A | H350 | May cause cancer |
| Combustible Dust | | May form combustible dust concentrations in air |
| Full text of H statements : see section 16 | | |

2.2. GHS Label elements, including precautionary statements**GHS CA labeling**

Hazard pictograms (GHS CA)



Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : May form combustible dust concentrations in air
H315 - Causes skin irritation
H318 - Causes serious eye damage
H350 - May cause cancer

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P308+P313 - IF exposed or concerned: Get medical advice/attention.
P310 - Immediately call a doctor.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
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

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

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | Conc. (% w/w) | Classification (GHS CA) |
|----------------------------|-----------------------------|---------------------|------------------|--|
| Calcium oxide | Calcium oxide | CAS-No.: 1305-78-8 | ≤ 15 | Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 |
| Quartz (SiO ₂) | Quartz (SiO ₂) | CAS-No.: 14808-60-7 | < 1 | Carc. 1A, H350 STOT RE 1, H372 |

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. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing.

First-aid measures after eye contact : Rinse with water while holding the eyes wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Call a physician immediately.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

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

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

Chronic symptoms : May cause cancer.

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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 : Dry chemical, CO₂, or water spray or regular foam. Water spray. Dry powder. Foam.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Explosion hazard : May form combustible dust concentrations in air. Potential dust explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Mark out the contaminated area with signs and prevent access to unauthorized personnel.
Ensure adequate ventilation. Remove all sources of ignition.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Minimize generation of dust. Notify authorities if product enters sewers or public waters.
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"

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. Avoid contact with skin and eyes. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid dust formation.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Quartz (SiO ₂) (14808-60-7) | |
|---|--|
| Canada (Alberta) - Occupational Exposure Limits | |
| Local name | Silica-Crystalline, Respirable particulate: Quartz |
| OEL TWA | 0.025 mg/m ³ |
| Notations and remarks | Carcinogenicity A2 |
| Regulatory reference | Alberta Regulation 87/2009 (Alberta Regulation 150/2020) |
| Canada (Quebec) - Occupational Exposure Limits | |
| Local name | Silica - Crystalline, Quartz |
| VEMP (OEL TWA) | 0.1 mg/m ³ Rd |
| Notations and remarks | C2, EM |
| Regulatory reference | S-2.1, r. 13 - Regulation respecting occupational health and safety |
| Canada (British Columbia) - Occupational Exposure Limits | |
| Local name | Silica, Crystalline - alpha quartz |
| OEL TWA | 0.025 mg/m ³ Respirable |
| Notations and remarks | ACGIH Carcinogenicity category A2; IARC group 1 carcinogen |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Manitoba) - Occupational Exposure Limits | |
| Local name | Silica crystalline - quartz |
| OEL TWA | 0.025 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| Local name | Silica crystalline - quartz |
| OEL TWA | 0.025 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| Local name | Silica crystalline - quartz |
| OEL TWA | 0.025 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH |
| Canada (Nunavut) - Occupational Exposure Limits | |
| Local name | Silica - Crystalline: Quartz |
| OEL TWA | 0.05 mg/m ³ (respirable fraction) |
| Notations and remarks | Designated substance |

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| Quartz (SiO ₂) (14808-60-7) | |
|---|---|
| Regulatory reference | Occupational Health and Safety Regulations, Nu Reg 003-2016 |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| Local name | Silica - Crystalline: Quartz |
| OEL TWA | 0.05 mg/m ³ (respirable fraction) |
| Notations and remarks | Designated substance |
| Regulatory reference | Occupation Health and Safety Regulations R-039-2015 (R-013-2020) |
| Canada (Ontario) - Occupational Exposure Limits | |
| Local name | Silica, Crystalline - Quartz |
| OEL TWA | 0.1 mg/m ³ (R - Respirable fraction) |
| Regulatory reference | Ontario Occuational Exposure Limits under Regulation 833 |
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| Local name | Silica crystalline - quartz |
| OEL TWA | 0.025 mg/m ³ (R - Respirable particulate matter) |
| Notations and remarks | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| Local name | Silica - Crystalline: Quartz |
| OEL TWA | 0.05 mg/m ³ (respirable fraction) |
| Notations and remarks | Designated Chemical Substance |
| Regulatory reference | The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1 |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Silica crystalline - quartz |
| ACGIH OEL TWA | 0.025 mg/m ³ (R - Respirable particulate matter) |
| Remark (ACGIH) | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Quartz (Respirable) (Silica: Crystalline) |
| Remark (OSHA) | Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO ₂ +5)) for mppcf and (10 mg/m ³ / (%SiO ₂ +2)) for mg/m ³ . CAS No. source: eCFR Table Z-1. |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-3 Mineral Dusts |
| Calcium oxide (1305-78-8) | |
| Canada (Alberta) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Notations and remarks | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required. |
| Regulatory reference | Alberta Regulation 87/2009 (Alberta Regulation 150/2020) |

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| Calcium oxide (1305-78-8) | |
|---|--|
| Canada (Quebec) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| VEMP (OEL TWA) | 2 mg/m ³ |
| Regulatory reference | S-2.1, r. 13 - Regulation respecting occupational health and safety |
| Canada (British Columbia) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Manitoba) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr |
| Regulatory reference | ACGIH |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr |
| Regulatory reference | ACGIH |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr |
| Regulatory reference | ACGIH |
| Canada (Nunavut) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| OEL STEL | 4 mg/m ³ |
| Regulatory reference | Occupational Health and Safety Regulations, Nu Reg 003-2016 |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| OEL STEL | 4 mg/m ³ |
| Regulatory reference | Occupation Health and Safety Regulations R-039-2015 (R-013-2020) |
| Canada (Ontario) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Regulatory reference | Ontario Occupational Exposure Limits under Regulation 833 |

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| Calcium oxide (1305-78-8) | |
|--|---|
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| Notations and remarks | TLV® Basis: URT irr |
| Regulatory reference | ACGIH |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OEL TWA | 2 mg/m ³ |
| OEL STEL | 4 mg/m ³ |
| Regulatory reference | The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1 |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| ACGIH OEL TWA | 2 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: URT irr |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Calcium oxide |
| OSHA PEL TWA [1] | 5 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

| |
|--|
| Hand protection: |
| Protective gloves |
| Eye protection: |
| Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment. Wear respiratory protection. |

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powder. |
| Color | : Gray |
| Odor | : Odorless |
| Odor threshold | : No data available |
| pH | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : Not applicable |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Explosion limits | : No data available |

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 | : Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition. |
| Incompatible materials | : Strong oxidizing agents. Strong bases. Strong acids. |
| 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 |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| Calcium oxide (1305-78-8) | |
|---------------------------|---|
| LD50 oral rat | > 2000 mg/kg Source: ECHA |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LC50 Inhalation - Rat | > 6.04 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes skin irritation. pH: Not applicable |
| Serious eye damage/irritation | : Causes serious eye damage. pH: Not applicable |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : May cause cancer. |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

| Calcium oxide (1305-78-8) | |
|---------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified

| Quartz (SiO2) (14808-60-7) | |
|----------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

| Calcium oxide (1305-78-8) | |
|---------------------------|---|
| NOAEL (oral,rat,90 days) | 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

| | |
|-------------------------------------|---|
| Aspiration hazard | : Not classified |
| Likely routes of exposure | : Dermal. Inhalation. Skin and eye contact. |
| Symptoms/effects after inhalation | : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : May cause irritation to the digestive tract. |
| Chronic symptoms | : May cause cancer. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|----------------------|
| Ecology - general | : No data available. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| Calcium oxide (1305-78-8) | |
|---------------------------|---|
| LC50 - Fish [1] | 50.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 49.1 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 184.57 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 32 mg/l Test organisms (species): Crangon septemspinosa Duration: '14 d' |

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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

| TDG | DOT | IMDG | IATA |
|---|----------------|----------------|----------------|
| 14.1. UN number | | | |
| Not regulated for transport | | | |
| 14.2. Proper Shipping Name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| Transport document description | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

14.6. Special precautions for user

TDG

No data available

DOT

No data available

IMDG

No data available

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IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Quartz (SiO₂) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

Calcium oxide (1305-78-8)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Quartz (SiO₂) (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Calcium oxide (1305-78-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 01-24-2022

Full text of H-phrases:

| | |
|------|--|
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H335 | May cause respiratory irritation |
| H350 | May cause cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |

Safety Data Sheet (SDS), Canada

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.