1 Identification

Product identifier

Trade name: DOLO 10

Application of the substance / the mixture Raw material

Details of the supplier of the safety data sheet

Manufacturer/Supplier: RHI Magnesita GmbH
Kranichberggasse 6
1120 Vienna
Austria
T +43 50213 0
rhimagensita.com

Information department: msds@rhimagnesita.com
T +43 502 13 5426
msds@rhimagnesita.com
T +43 502 13 5426
Compliance Department: 717-793-5463

Emergency telephone number: RHI Magnesita: +43 50213 5426

Chemtrec: 800-424-9300
Magnesita: 717-793-5463

2 Hazard(s) identification

Classification of the substance or mixture

GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.
(Additional information for shaped products: The cancer risk occurs only in the presence of dust)

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS08

Signal word Danger

Hazard-determining components of labeling: quartz (SiO2)

Hazard statements H350 May cause cancer.
(Additional information for shaped products: The cancer risk occurs only in the presence of dust)

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

(Contd. on page 2)
Trade name: DOLO 10

(Contd. of page 1)

P280 Wear protective gloves/protection/eye protection/face
  protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/
  national/international regulations.

Additional information: Respirators should be used if dust/fume is present.
A respiratory protection program should be implemented if exposure exceeds
the American Conference of Governmental Industrial Hygenists (ACGIH)
defined Time Weighted Average (TWA)

Harzard description
Do not breathe dust.
In case of contact with eyes, rinse immediately with plenty of water and seek
medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.
If swallowed, seek medical advice immediately and show this container or
label.
If in case of accident by inhalation: remove casualty to fresh air and keep at rest
If swallowed, rinse mouth with water (only if the person is conscious)

Classification system
NFPA ratings (scale 0-4)

0 0 0
Health = 0
Fire = 0
Reactivity = 0

HMIS Classification

HEALTH 0
Health = *0
FIRE 0
Fire = 0
REACTIVITY 0
Reactivity = 0

Carcinogenicity: not listed

Other hazards
The product contains substances for which occupational exposure limits exist.
It is therefore imperative that the information in Section 8 is also taken into
account.

See section 11.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Raw material

Components:

CAS: 16389-88-1 dolomite 60-100%

Dangerous components:

CAS: 14808-60-7 quartz (SiO2) 0.1-1%
  Carcinogenicity 1A, H350

Additional information
In order to avoid dust during installation, the technical possibilities available at
the site should be used. Please observe the instructions for personal
protective equipment given in section 8.

4 First-aid measures

Description of first aid measures
After inhalation
Supply fresh air; consult doctor in case of complaints.

(Contd. on page 3)
5. Fire-fighting measures

Extinguishing media
For safety reasons unsuitable extinguishing agents
Not applicable, the product is fire resistant.

Special hazards arising from the substance or mixture
No further relevant information available.

Advice for firefighters
Protective equipment / Protection of firefighters:
No special measures required.

Hazardsous combustion products
Will not occur.

Flammable properties
The product is fire resistant.
Not flammable.

Additional information:
Additional information see section 9.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
See section 8.

Environmental precautions:
See section 12.

Methods and material for containment and cleaning up:
Pick up mechanically.

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Protective Action Criteria for Chemicals
PAC-1:
CAS: 14808-60-7 quartz (SiO2): 0.075 mg/m³

PAC-2:
CAS: 14808-60-7 quartz (SiO2): 33 mg/m³

PAC-3:
CAS: 14808-60-7 quartz (SiO2): 200 mg/m³

7. Handling and storage

Handling
Precautions for safe handling
Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of
Trade name: DOLO 10

Information about protection against explosions and fires:

The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:
No special requirements.

Information about storage in one common storage facility:
Not applicable.

Further information about storage conditions:
None.

Specific end use(s):
No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
No further data; see item 7.

Control parameters

Exposure Guidelines (Components with limit values that require monitoring at the workplace):

CAS: 14808-60-7 quartz (SiO2) (0.1-1%)
PEL Long-term value: 0.05* mg/m³
  *resp. dust; 30mg/m3/%SiO2+2
REL Long-term value: 0.05* mg/m³
  *respirable dust; See Pocket Guide App. A
TLV Long-term value: 0.025* mg/m³
  *respirable particulate matter, A2

Additional information:
The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment (PPE)
General protective and hygienic measures
Wash hands before breaks and at the end of work.

Respiratory protection / Breathing equipment:
NIOSH approved respirators should be used if dust is present. A respiratory protection program should be implemented if exposure exceeds OSHA PELs. Use suitable respiratory protective device when high concentrations are present during cutting, grinding, mixing and sanding.

Respiratory protection
Filter P100

Protection of hands:
Protective gloves.

Eye/face protection:
Safety glasses with side shields

(Contd. on page 5)
## 9 Physical and chemical properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**
- **Form (Physical state):** Solid
- **Color:** Dark
- **Odor:** Odorless
- **Odor threshold:** Not determined.

**pH-value:** Not applicable.

**Melting point / Melting range:**
- Not determined.
- Not applicable.

**Flash point:**
- Not applicable.

**Flammability (solid, gaseous):** Product is not flammable.
  - See section 5.

**Ignition temperature:**
- Not applicable.

**Decomposition temperature:**
- Not applicable.
- Not determined.

**Auto igniting:**
- Product is not self igniting.
- Not determined.

**Danger of explosion:**
- Product does not present an explosion hazard.

**Explosion limits:**
- Lower: Not applicable.
- Upper: Not applicable.

**Vapor pressure:**
- Not applicable.

**Relative density**
- Not applicable.
- Not determined.

**Vapor density**
- Not applicable.

**Evaporation rate**
- Not applicable.

**Solubility in / Miscibility with Water:**
- Soluble

**Partition coefficient (n-octanol/water):**
- Not applicable.
- Not determined.

**Viscosity:**
- Dynamic: Not applicable.
- Kinematic: Not applicable.
55.2.4 Other information

Additional information:
- Melting Point: NA
- Freezing Point: NA
- Viscosity (and units): NA
- Odor Threshold (ppm): NA
- Evaporation Rate (relative to): NA
- Vapor Density (air =1): NA
- Vapor Pressure (units): NA
- pH (undiluted): NA
- pH (diluted): NA
- % dilution: NA
- VOC Content: NA
- % Volatile: NA
- PM Content: NA

10 Stability and reactivity

Reactivity:
- No further relevant information available.

Chemical stability:
- Conditions to avoid (Thermal decomposition):
  - No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions:
  - No dangerous reactions known
- Conditions to avoid:
  - No further relevant information available.
- Incompatible materials:
  - No further relevant information available.
- Hazardous decomposition products:
  - No dangerous decomposition products known
  - Additional information:
    - Refractories that contain silica in different forms may contain more or less crystalline silica after service life. Care must be taken to control dust during demolition. For proper protection find information in this document and ask the local EH&S responsible.

11 Toxicological information

Information on toxicological effects:
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - Not applicable.
- Primary irritant effect:
  - on the skin:
    - No irritant effect.
  - on the eye:
    - No irritating effect.
- Allergic reaction:
  - No known allergic reaction.
- Additional toxicological information:
  - If this product has been in service at temperatures greater than 1000°C (1800°F) it may contain cristobalite, a form of crystalline silica. IARC has classified crystalline silica, which includes cristobalite, as a group I carcinogen (known human carcinogen).
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      - CAS: 14808-60-7 quartz (SiO2): 1
    - NTP (National Toxicology Program)
      - CAS: 14808-60-7 quartz (SiO2): K
    - OSHA-Ca (Occupational Safety & Health Administration)
      - None of the ingredients is listed.
12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability: No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects: No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation: Disposal must be made according to official regulations.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number
DOT, ADR, ADN, IMDG, IATA: not applicable
UN proper shipping name
DOT, ADR, ADN, IMDG, IATA: not applicable
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA: not applicable
Packing group
DOT, ADR, IMGD, IATA: not applicable
Environmental hazards: Not applicable.
Special precautions for user
Hazard identification number (Kemler code): Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
Transport/Additional information: Not dangerous according to available informations.
UN "Model Regulation": not applicable

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

Hazardous Air Pollutants
None of the ingredients is listed.
Proposition 65
Chemicals known to cause cancer:

CAS: 14808-60-7 quartz (SiO2)

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Additional classification according to Decree on Hazardous Materials
PRODUCT MAY CONTAIN CRYSTALLINE SILICA, an IARC and NTP listed cancer agent. Prolonged or repeated inhalation of dust from products containing crystalline silica can cause silicosis or cancer.

Cancerogenity categories
EPA (Environmental Protection Agency)
None of the ingredients is listed.

TLV (Threshold Limit Value)
CAS: 14808-60-7 quartz (SiO2): A2

MAK (German Maximum Workplace Concentration)
CAS: 14808-60-7 quartz (SiO2): 1

NIOSH-Ca (National Institute for Occupational Safety and Health)
CAS: 14808-60-7 quartz (SiO2)

GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms
GHS08

Signal word
Danger

Hazard-determining components of labeling:
quartz (SiO2)

Hazard statements
H350 May cause cancer.
(Additional information for shaped products: The cancer risk occurs only in the presence of dust)

Precautionary statements
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
**National regulations:**

**SARA 313 TOXIC CHEMICALS**

No material listed in the components in Section 3 of this SDS is on the SARA 313 list.

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES**

No material listed in the components in Section 3 of this SDS is on the SARA 302 list.

**TSCA (Toxic Substances Control Act)**

This substance or all the ingredients of this product are on the Chemical Substances Inventory of the Toxic Substances Control Act (TSCA Inventory).

The presence on this list does not require any legal reporting.

**HMIS Classification**

Class D - Division 2 - Subdivision B

Untested mixture containing a toxic material

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by the CPR.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:**

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**ref.:**

Date of preparation / last revision: 12/06/2022

Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Carcinogenicity 1A: Carcinogenicity – Category 1A

* Data compared to the previous version altered.