



1 Identification

Product identifier

Trade name: DOLO 20 D

Application of the substance / the mixture Raw material

Details of the supplier of the safety data sheet

Manufacturer/Supplier: RHI Magnesita GmbH
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1120 Vienna
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Information department: msds@rhimagnesita.com
T +43 502 13 5426
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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:

Hazard statements

quartz (SiO₂)

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.

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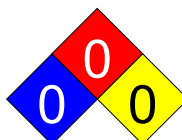
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Additional information:

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.

Hazard description

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 Hygienists (ACGIH) defined Time Weighted Average (TWA)
 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.
 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)**

Health = 0
 Fire = 0
 Reactivity = 0

HMS Classification

Health = *0
 Fire = 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.

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After skin contact	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	If symptoms persist consult doctor.
Information for doctor / Note to physicians	
Most important symptoms and effects, both acute and delayed:	No further relevant information available.
Indication of any immediate medical attention and special treatment needed:	No further relevant information available.

* 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:
Harzardous combustion products
No special measures required.
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

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work shift. Do not wear contaminated clothing at home.

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations

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

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Skin protection:

Protective work clothing.

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* 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:

Relative density Not applicable.
Not applicable.
Not determined.

Vapor density Not applicable.

Evaporation rate Not applicable.
Not applicable.

Solubility in / Miscibility with

Water: Not applicable.
Soluble

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

Viscosity:

dynamic: Not applicable.
kinematic: Not applicable.

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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.

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* 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
Class

not applicable

Packing group
DOT, ADR, IMDG, IATA

not applicable

Environmental hazards:

Not applicable.

Special precautions for user

Not applicable.

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.

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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.

Carcinogenicity 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)
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Hazard pictograms


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Signal word

Danger

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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 - Division2 - 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.

* 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.