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Time-weighted average (TWA) 10 mg/m³
Form of exposure: inhalable particles.

Exposure controls

Ventilation system

A local and/or general exhaust aeration system is recommended for keep employee exposures below exposure limits. Local exhaust ventilation is usually preferred because it can control pollutant emissions at source, preventing dispersion of this in the general work area. Please refer to the document of the ACGIH, *Industrial Ventilation, A Best Practice Manual*, editing more recent, for details.

Personal Respirators (NIOSH Approved)

If the exposure limit is exceeded, a medium mask particle respirator dust/fog must be used if exposed 10 times above the exposure or maximum use concentration specified by the agency appropriate regulator or ventilator provider. A particle respirator full dust/fog mask should be used if exposed 50 times by above the exposure limit or maximum use concentration specified by the appropriate regulatory agency or the ventilator provider. For emergencies or cases where exposure levels are not known, use a Full positive pressure mask, a self-contained respirator.

WARNING: Self-contained respirators do not protect workers in oxygen deficient atmospheres.

Hand protection

| | | |
|-------------|-------------------------|----------------|
| Submergence | Material of the glove: | nitrile rubber |
| | Thickness of the glove: | 0,11 mm |
| | Penetration time: | >480 min |

| | | |
|---------|-------------------------|----------------|
| Spatter | Material of the glove: | nitrile rubber |
| | Thickness of the glove: | 0,11 mm |
| | Penetration time: | >480 min |

Eye protection

Wear protective chemical goggles. Keep a source of Emergency eye washing and showers in the work area.

9.

Property
physical and
chemical

Information on
property

basic physical and chemical

Way
Color
Smell

Solid.
Light beige.
Characteristic.



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| | |
|---|------------------------------------|
| Olfactory threshold | Does not apply. |
| pH | 10,3 to 20 °C (saturated solution) |
| Melting point | 2,800 °C |
| Point/boiling interval | 3.600 °C a 1.000 hPa |
| Flash point | It does not swell. |
| Evaporation rate | No information is available. |
| Flammability (solid, gas) | No information is available. |
| Explosion limit, lower | Not applicable |
| Limit of explosion, upper | Not applicable |
| Vapour pressure | No information is available. |
| Relative density of steam | No information is available. |
| Density | 3.58 g/cm ³ to 25 °C |
| Relative density | No information is available. |
| Water solubility | Virtually insoluble |
| Partition coefficient noctanol/water | No information is available. |
| Self-ignition temperature | No information is available. |
| Decomposition temperature | No information is available. |
| Dynamic viscosity | No information is available. |
| Explosive properties | Not classified/a as explosive/a. |
| Oxidising properties | None. |

Other information

| | |
|----------------------|------------------------------|
| Ignition temperature | Non-fuel |
| Apparent density | approx.100 kg/m ³ |

10. Stability and reactivity

Reactivity
See "*Possibility of dangerous reactions.*"

Chemical stability

The product is chemically stable under normal conditions (at room temperature).

Possibility of dangerous reactions

Risk of explosion in contact with:

aluminum powder (heat), aniline perchlorate, magnesium powder (heat), sulfur (heat)

The substance may react dangerously with:

strong acids, bromine pentafluoride, chlorine trifluoride, phosphorus pentachloride

Conditions to be avoided
Exposure to moisture.

Incompatible materials

Information not available.

Dangerous decomposition products

Information not available.



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11.

Toxicological information

Information on toxicological effects

Acute oral toxicity

Symptoms: High doses cause diarrhea.

Acute toxicity by inhalation

Symptoms: mild irritation of the mucous membranes.

Acute skin toxicity

This information is not available.

Skin irritation

Slight irritation.

Eye irritation

Slight irritation

Sensitization

This information is not available.

Mutagenicity in germ cells

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific toxicity to certain organs - single exposure This information is not available.

Specific toxicity to certain organs - repeated exposures This information is not available.

Aspiration hazard

This information is not available.

Other information

Inhalation of particles should be avoided; even if they are inert, they can affect the airways.

Handle with proper industrial hygiene precautions and respect safety practices.



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12.

Ecological Toxicity information

No information is available.

Persistence and degradability

No information is available.

Bioaccumulation potential

No information is available.

Floor mobility

No information is available.

Other adverse effects

Discharge into the environment should be avoided.

13.

Disposal considerations

The product is not considered polluting or dangerous. Waste must be disposed of in accordance with the waste directive 2008/98/EC and other local or national regulations. Leave the chemicals in their original containers. Do not mix them with other waste. Handle dirty containers as the product itself.

14.

Transport information

Trucking

Product not dangerous according to the criteria of the regulations for transport.

River transport

Not relevant.

Air transport (IATA)

Product not dangerous according to the criteria of transport regulation.

Maritime transport (IMDG)

Product not dangerous according to the criteria of transport regulation.

15.

Regulatory information

Chemical Inventory Status - Part 1

| Ingredient | TSCA | EC | Japan | Australia |
|-----------------------------|------|-----|-------|-----------|
| Magnesium Oxide (1309-48-4) | Yes | Yes | Yes | Yes |

Chemical Inventory Status - Part 2

| Ingredient | Korea | DSL | Canada | |
|-----------------------------|-------|-----|--------|------|
| | | | NDSL | Phil |
| Magnesium Oxide (1309-48-4) | Yes | Yes | Not | Yes |

Federal, State and International Regulations - Part 1

| Ingredient | SARA 302 | | SARA 313 | |
|-----------------------------|----------|-----|----------|-------------|
| | RQ | TPQ | List | Cat.Quimico |
| Magnesium Oxide (1309-48-4) | No | Not | Not | Not |



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Federal, State and International Regulations - Part 2

| Ingredient | CERCLA | RCRA | TSCA |
|-----------------------------|--------|---------------|--------------|
| Magnesium Oxide (1309-48-4) | Not | 261.33 Not | 8 (d) Not |

Chemical Weapons Conversion: No | TSCA 12 (b): No |
CDTA: No **SARA 311/312:** Agudo: Si | Crónico: No |
Flammability: No | Pressure: No **Reactivity:** No (Pure/ Solid)

Australian Hazchem Code: None assigned.

Poison phrase: None assigned.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other information Training advice referred to in Section 2.

Workers must be provided with adequate information and practical training.

Transport labelling

Not subject to transport regulations

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