



Magnesium hydroxide

EU / EN

Revision Date 01.09.2020

Version 1.0

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/
UNDERTAKING**

1.1 Product identifier

Trade name : Magnesium hydroxide.
Chemical name : Magnesium hydroxide.
CAS-No : 1309-42-8
EC-No : 215-170-3
Registration number : No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/ : Used in chemical, petrochemical, pulp and paper, glass
Mixture industry, metallurgical, in construction, for the production of
fertilizers, premixes, for the treatment of waste water and flue
gases.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Full company name : Limited liability company «Ural Plant of Deicing Materials»
Short company name : «UZPM», LLC

Telephone : +7 342 254 01 40

E-mail address : info@uzpm.ru

Supplier

Full company name : Limited liability company «Trading House «Ural Plant of Deicing
Materials»

Short company name : Trading House «UZPM», LLC

Telephone : +7 342 254 01 40

E-mail address : sales@uzpm.ru

1.4 Emergency telephone number

Austria: Poison Control Centre, Tel.: (+43)-1-406-43-43;

Belgium: Belgisch Antigifcentrum, Tel.: 070-245-245;

Croatia: Poison Control Centre, Tel: (+385)-1-23-48-342;

Czech Republic: Toxikologické informační středisko Tel.: (+420)-224-919-293,
(+420)-224-915-402;

Denmark: Poison Control Hotline, Tel.: (+45)-82-12-12-12;

Estonia: National emergency telephone number: 112 or Poison information telephone number:
16662, calling from abroad: (+372) 7943-794;

Finland: Poison Information Centre, Tel.: (09)-471-977 (direct) or (09)-4711;

France: ORFILA (INRS), Tel.: (+33)-(0)-1-45-42-59-59;

Hungary: Az Egészségügyi Toxikológiai Tájékoztató Szolgálat elérhetőségei Tel: (+36)-80-201-199;

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Iceland : Landspítali - The National University Hospital of Iceland, Tel.: (+354) 543-1000 or 112;
Latvia: Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs, Tel.: (+371)-67042473;
Lithuania: Sveikatos apsaugos ministerijos ekstremalių sveikatai situacijų centras,
 Tel.: (+370)-5-236-20-52;
Luxembourg: Belgian Poison Center, Tel.: (+352) 8002-5500;
Malta: Mater Dei Hospital, Tel: 2545-0000;
Kingdom of Norway: 113;
Sweden: Swedish Poisons Information Centre, Tel.: (+46) 10-456-6700 or 112.

Note: please, consult with your local/national competent authorities for the emergency number in your country.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

The product does not need to be classified in accordance with REGULATION (EC) No 1272/2008.
 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

The product does not need to be labelled in accordance with REGULATION (EC) No 1272/2008.
 Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

2.3 Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product is a substance within the meaning of the REACH Regulation (1907/2006/EC).
 The following table contains the main constituent at the top.

Chemical Name	Concentration, wt. %	CAS-No	EC-No Registration number	Index-No	CLP
Magnesium hydroxide	≥ 90,8	1309-42-8	215-170-3	-	Not Classified
Calcium oxide	≤ 4,0	1305-78-8	215-138-9	-	Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335
Silicon dioxide	≤ 2,0	7631-86-9	231-545-4	-	Not Classified

For the full text of the H-phrases mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice (show the label where possible).



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- Inhalation : If breathed in, move person into fresh air. Keep patient warm and at rest. Seek medical attention if necessary.
- Skin contact : In case of contact, flush skin with soap and plenty of water. Seek medical attention if necessary.
- Eye contact : In the case of contact with eyes, rinse with plenty of water. Seek medical attention if necessary.
- Ingestion : Rinse mouth with water. Seek medical attention if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: sore throat, cough, headache, nausea.
Skin contact: dryness, redness (mechanical irritation).
Eye contact: redness, pain, lacrimation (mechanical irritation).
Ingestion: vomiting, diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards : No data available.

5.3 Advice fire fighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedure

Refer to protective measures listed in sections 7 and 8. Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Collect and place in container for disposal according to local / national regulations. Pick up and

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transfer to properly labelled containers. Clean contaminated surface thoroughly.

6.4 Reference to other sections

See Section 7, 8, 11, 12 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Use with local exhaust ventilation. Avoid breathing dust. Do not handle until all safety precautions have been read and understood.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage including any incompatibilities

Requirements for storage : Store in a closed and dry place away from moisture and direct sunlight.

Store in undamaged original packaging at a relative humidity not exceeding 75%.

Store in soft polypropylene fabric containers, woven polypropylene bags.

Advice on common storage : Keep away from pollution, acid vapors, alkalis and other aggressive media.

Storage period : 5 years, subject to general storage recommendations.

Storage temperature : No data available.

7.3 Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No	Control parameters	Basis	Country
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-AT	Austria
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	MB 14.3.2002	Belgium
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	НАРЕДБА № 13	Bulgaria
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-HR	Croatia
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-CY	Cyprus
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	361/2007 Sb.	Czech Republic
Calcium oxide	1305-78-8	TWA: 1 mg/m ³ (respirable fraction); TWA: 2 mg/m ³	OEL-DK	Denmark
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	RT I 2001, 77, 460	Estonia
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	HTP-ARVOT 2014	Finland

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Components	CAS-No	Control parameters	Basis	Country
Calcium oxide	1305-78-8	TWA: 2 mg/m ³	ED 984	France
Calcium oxide	1305-78-8	TWA MAK: 1 mg/m ³ ;	TRGS 900	Germany
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	FACTORIES ACT 1956	Gibraltar
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-GR	Greece
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	EüM-SzCsM 25/2000	Hungary
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	S.I. No. 619 of 2001	Ireland
Calcium oxide	1305-78-8	TWA: 2 mg/m ³	OEL-IT	Italy
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	MK 01.02.2011. Nr.92	Latvia
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	2011 m. 1 d. Nr. V- 824/A1-389	Lithuania
Calcium oxide	1305-78-8	TWA: 1 mg/m ³	Mémorial 168	Luxembourg
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	S.L.424.24	Malta
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-NL	Netherlands
Calcium oxide	1305-78-8	STEL: 6 mg/m ³ (inhalable fraction); STEL: 4 mg/m ³ TWA: 2 mg/m ³ (inhalable fraction); TWA: 1 mg/m ³	Dz.U. 2014 poz. 817	Poland
Calcium oxide	1305-78-8	TWA: 2 mg/m ³	OEL-PT	Portugal
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	Hotarârea nr. 1218	Romania
Calcium oxide	1305-78-8	TWA: 5 mg/m ³	Nariadenie 300/2007 Z.z.	Slovak Republic
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-SI	Slovenia
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	OEL-ES	Spain
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	AFS 2011 :18	Sweden
Calcium oxide	1305-78-8	STEL: 4 mg/m ³ ; TWA: 1 mg/m ³	GB EH40	United Kingdom
Silicon dioxide	7631-86-9	TWA: 4 mg/m ³	OEL-AT	Austria
Silicon dioxide	7631-86-9	MAC: 5 mg/m ³ (particles > 5 µm, dust capable of being retained in the lungs, Notice 7 Table 14); MAC: 2 mg/m ³ (particles < 5 µm, dust capable of being retained in the lungs, Notice 7 Table 14)	OEL-CY	Cyprus
Silicon dioxide	7631-86-9	TWA: 0,1 mg/m ³ (respirable fraction); TWA: 4,0 mg/m ³ (as amorphous SiO ₂)	361/2007 Sb.	Czech Republic
Silicon dioxide	7631-86-9	TWA: 4 mg/m ³	RT I 2001, 77, 460	Estonia
Silicon dioxide	7631-86-9	TWA: 5 mg/m ³	HTP-ARVOT 2014	Finland
Silicon dioxide	7631-86-9	TWA MAK: 4 mg/m ³ ; TWA AGW: 5 mg/m ³	TRGS 900	Germany
Silicon dioxide	7631-86-9	STEL: 18 mg/m ³ (calculated, respirable dust); STEL: 7.2 mg/m ³ (calculated, respirable dust); TWA: 1 mg/m ³ (total inhalable dust); TWA: 1 mg/m ³ (respirable dust)	S.I. No. 619 of 2001	Ireland
Silicon dioxide	7631-86-9	TWA: 1 mg/m ³	MK 01.02.2011. Nr.92	Latvia
Silicon dioxide	7631-86-9	MAC: 0.02 mg/m ³	2011 m. 1 d. Nr. V-	Lithuania



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Components	CAS-No	Control parameters	Basis	Country
			824/A1-389	
Silicon dioxide	7631-86-9	TWA: 4 mg/m ³ (inhalable fraction)	OEL-SI	Slovenia

PNEC (Predicted No effect Concentration)

PNEC aqua – freshwater:

Magnesium hydroxide : 0.1 mg/L
Calcium oxide : 0.37 mg/L

PNEC aqua – marine water:

Magnesium hydroxide : 0.01 mg/L
Calcium oxide : 0.24 mg/L

PNEC aqua – intermittent releases:

Calcium oxide : 0.37 mg/L

PNEC sediment – freshwater:

Magnesium hydroxide : 1 mg/L

PNEC sediment – marine water:

Magnesium hydroxide : 0.008 mg/L

PNEC soil:

Calcium oxide : 817.4 mg/kg soil dw

PNEC STP:

Magnesium hydroxide : 0.1 mg/L
Calcium oxide : 2.27 mg/L

DNEL (Derived No Effect Level)/DMEL (Derived Minimal Effect Level)

Worker

Long-term exposure systemic effects, inhalation:

Magnesium hydroxide : 117.54 mg/m³

Long-term exposure local effects, inhalation:

Calcium oxide : 1 mg/m³

Long-term exposure systemic effects, dermal:

Magnesium hydroxide : 16.67 mg/kg bw/day

Short-term exposure systemic effects, inhalation:

Magnesium hydroxide : 117.54 mg/m³

Short-term exposure systemic effects, dermal:

Magnesium hydroxide : 16.67 mg/kg bw/day



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General population

Long-term exposure systemic effects, inhalation:

Magnesium hydroxide : 34.78 mg/m³

Long-term exposure local effects, inhalation:

Calcium oxide : 1 mg/m³

Long-term exposure systemic effects, oral:

Magnesium hydroxide : 10 mg/kg bw/day

Long-term exposure systemic effects, dermal:

Magnesium hydroxide : 10 mg/kg bw/day

Short-term exposure systemic effects, inhalation:

Magnesium hydroxide : 34.78 mg/m³

Short-term exposure systemic effects, dermal:

Magnesium hydroxide : 10 mg/kg bw/day

Short-term exposure systemic effects, oral:

Magnesium hydroxide : 10 mg/kg bw/day

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.

Personal protective equipment

Respiratory protection : Half mask with a particle filter.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

Hand protection : Gloves.

Material : Rubber.

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles.

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection : Overalls, footwear.

Remarks : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.



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Avoid formation of dust.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.

Environmental exposure controls

No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	: Powder.
Colour	: White or light gray.
Odour	: No data available.
Odor threshold	: No data available.
Flash point	: Not applicable.
Lower explosion limit	: Not applicable.
Upper explosion limit	: Not applicable.
Explosive properties	: Non explosive.
Flammability	: Not flammable.
Oxidizing properties	: Non-oxidizing.
Self-ignition temperature	: Not applicable.
Melting point/range	: No data available.
Boiling point/boiling range	: No data available.
Vapor pressure	: Not applicable.
Density	: No data available.
Bulk density	: No data available.
pH	: No data available.
Water solubility	: Insoluble in water.
Miscibility with water (15 °C)	: No data available.
Partition coefficient: n-octanol/water	: No data available.
Solubility in other solvents	: No data available.
Viscosity, dynamic	: No data available.
Viscosity, kinematic	: No data available.
Relative vapor density	: No data available.
Evaporation rate	: No data available.
Decomposition temperature	: No data available.

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reacts with alkalis, ammonium salts, sulfur, selenium, phosphorus.

10.2 Chemical stability



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Stable under normal conditions.

10.3 Possibility of hazardous reactions

Not applicable.

10.4 Conditions to avoid

Not applicable.

10.5 Incompatible materials

Materials to avoid : Avoid contact with acid vapors, alkalis and other aggressive media.

10.6 Hazardous decomposition products

Hazardous decomposition products : No data available.

Thermal decomposition : No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Magnesium hydroxide : LD₅₀ (rat): > 2 000 mg/kg bw
Calcium oxide : LD₅₀ (rat): > 2 000 mg/kg bw
Silicon dioxide : LD₅₀ (rat): > 5 000 mg/kg bw

Acute inhalation toxicity

Magnesium hydroxide : LC₅₀ (rat): > 2.1 mg/L air;
Exposure time: 4 h.
Calcium oxide : LC₅₀ (rat): > 6.04 mg/L air;
Exposure time: 4 h.
Silicon dioxide : LC₅₀ (rat): > 5.01 mg/L air;
Exposure time: 4 h (analytical).

Acute dermal toxicity

Calcium oxide : LD₅₀ (rabbit) : > 2 500 mg/kg bw
Silicon dioxide : LD₅₀ (rabbit) : > 5 000 mg/kg bw

Acute toxicity (other routes of administration)

No data available.

Skin corrosion / irritation

Skin irritation : Not irritating.

Serious eye damage / eye irritation

Eye irritation : Not irritating.

Sensitization of the respiratory / skin

Skin sensitization : Non-sensitizing.



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Respiratory sensitization : Non-sensitizing.

Mutagenicity

No mutagenic effect.

Carcinogenicity

No carcinogenicity effect.

Reproductive toxicity

No reproductive effect.

Teratogenicity

No data available.

Specific target organ toxicity after single exposure

No data available.

Specific target organ toxicity after repeated exposure (sub-acute / sub-chronic)

No data available.

Repeated dose toxicity: (sub-acute/ sub-chronic)

Magnesium hydroxide : NOAEL (sub-acute, rat): ≥ 1000 mg/kg bw/day;
Route of application: oral;
Exposure time: 7 days of exposure; 6 hours/day;

Calcium oxide : NOAEC (sub-acute, rat): 0.107 mg/L air;
Route of application: inhalation;
Exposure time: 14 days of exposure; 6 hours/day

Silicon dioxide : NOEL (sub-chronic, rat): 7 950 - 8 980 mg/kg bw/day;
Route of application: oral;
Exposure time: 26 weeks; 7 5 days/week;

LOAEC (sub-chronic, rat): 2.5 mg/m³ air ;
Route of application: inhalation;
Exposure time: 13 weeks; 5 days/week, 6 hours/day.

NOAEL (sub-acute, rabbit): $\geq 10\ 000$ mg/kg bw/day ;
Route of application: dermal;
Exposure time: 3 weeks; 5 days/week, 18 hours/day.

Aspiration hazard

Not applicable.

Neurological effects

No data available.

Toxicology, metabolism, distribution

No data available.



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:

Magnesium hydroxide	: LC ₅₀ (Pimephales promelas): 511.31 mg/L Exposure time: 96 h
Calcium oxide	: LC ₅₀ (Oncorhynchus mykiss): 50.6 mg/L Exposure time: 96 h
Silicon dioxide	: LC ₅₀ (Pimephales promelas): > 5 000 mg/L Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Magnesium hydroxide	: CL ₅₀ (Daphnia magna): 170.86 mg/L Exposure time: 96 h
Calcium oxide	: EC ₅₀ (Daphnia magna): 49.1 mg/L Exposure time: 48 h
Silicon dioxide	: EC ₅₀ (Daphnia magna): > 5 000 mg/L Exposure time: 48 h

Toxicity to aquatic plants:

Magnesium hydroxide	: EC ₅₀ (Fresh water Algae): > 100 mg/L Exposure time: 72 h
Silicon dioxide	: EC ₅₀ (Desmodesmus subspicatus): > 173.1 mg/L Exposure time: 72 h

Long-term study fish/daphnia and other aquatic invertebrates/aquatic plants:

Calcium oxide	: NOEC (Crangon septemspinosa): 32 mg/L Exposure time: 14 d
Silicon dioxide	: NOEC (Fish): 86.03 mg/L Exposure time: 30 d NOEC (Daphnia magna): 68 mg/L Exposure time: 21 d

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

Calcium oxide	BSAF = 3.03 – 21.09 Test organisms: Lolium perenne cv Nui.
Silicon dioxide	: BCF = 3.162 L/kg; BAF = 1.09 L/kg

12.4 Mobility in soil

No data available.

12.5 Results of PBT assessment and vPvB

No data available.

12.6 Other adverse effects



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Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

ADR

Non-dangerous goods.

RID

Non-dangerous goods.

IATA

Non-dangerous goods.

IMDG

Non-dangerous goods.

Special precautions for the user

See Section 6, 7 and 8.

SECTION 15: REGULATORY INFORMATION

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

Special labelling of certain mixtures : Restricted to professional users.

Seveso Directive (2012/18/EU) : Not applicable.

National legislation

Other regulations : No data available.

15.2 CSA

The Chemical Safety Assessment was not undertaken.

SECTION 16: OTHER INFORMATION

Hazard statements:

H315 : Causes skin irritation.

H318 : Causes serious eye damage.



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H335 : May cause respiratory irritation.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.