

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

Print date: 01.06.15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Miele ProCare Dent 10 A

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

Use of the substance/preparation

Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

Address:

Miele & Cie. KG
Carl-Miele-Straße 29
D-33332 Gütersloh
Telephone no. +49 5241 89 0
Fax no. +49 5241 89 2090
www.miele-professional.com

E-mail address of person responsible for this SDS:

sida@drweigert.de

1.4. Emergency telephone number

GBK/ Infotrac: (USA domestic) 1 800 535 5053 or international +1 352 323 3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)	
Skin Corr. 1B	H314
Eye Dam. 1	H318
Met. Corr. 1	H290

Classification in accordance with EC directives 1999/45/EC and 67/548/EEC

Classification	C, R34
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2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

Print date: 01.06.15

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
Dispose only when container is empty and closed. For disposal of product residues, refer to Safety Data Sheet.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains disodium metasilicate;dipotassium metasilicate

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols



corrosive

R phrases

34 Causes burns.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of . . . (to be specified by the manufacturer).
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous component(s) to be indicated on label

contains disodium metasilicate;dipotassium metasilicate

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

disodium metasilicate

CAS No. 6834-92-0
EINECS no. 229-912-9
Concentration $\geq 10 < 25$ %
Classification Xi, R37
C, R34

Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1B H314
STOT SE 3 H335

dipotassium metasilicate

CAS No. 10006-28-7
EINECS no. 233-001-1
Concentration $\geq 10 < 25$ %
Classification Xi, R37

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

Print date: 01.06.15

C, R34

potassium hydroxide

CAS No. 1310-58-3
EINECS no. 215-181-3
Registration no. 01-2119487136-33
Concentration < 1 %
Classification Xn, R22
C, R35

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302
Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1A	H314	>= 5
Skin Irrit. 2	H315	<= 0,5 < 2
Skin Corr. 1B	H314	<= 2 < 5
Eye Irrit. 2	H319	<= 0,5 < 2

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. When spray fog inhaled, seek medical aid.

After skin contact

After contact with skin, wash immediately with plenty of water. Take medical treatment.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

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Non Suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly closed.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class according to TRGS 510

Storage class according to TRGS 510 8B Non-combustible corrosive hazardous substances

7.3. Specific end use(s)

no data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

There are not known any further control parameters.

8.2. Exposure controls

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

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General protective and hygiene measures

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Chemical resistant gloves

Appropriate Material	neoprene
Appropriate Material	butyl rubber
Appropriate Material	nitrile

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Value	appr. 14
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	not determined
Flash point	
Remarks	Not applicable
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
evaluation	not determined
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Value	1,48
Solubility in water	

g/cm³

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

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Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

evaluation None known

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Strong exothermic reaction with acids.

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks not determined

Acute oral toxicity (Components)

disodium metasilicate

Species	rat		
LD50	1150		mg/kg

Acute dermal toxicity

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

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Remarks not determined

Acute dermal toxicity (Components)

disodium metasilicate

Species	rat	
LD50	> 5000	mg/kg

Acute inhalational toxicity

Remarks not determined

Skin corrosion/irritation

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

disodium metasilicate

Species	mosquito fish	
LC50	2320	mg/l
Duration of exposure	96 h	

disodium metasilicate

Species	zebra fish (Brachydanio rerio)	
LC50	210	mg/l
Duration of exposure	96 h	

Bacteria toxicity (Components)

disodium metasilicate

Species	activated sludge	
EC50	> 100	mg/l
Duration of exposure	3 h	

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

Date revised: 14.01.2015

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12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, dipotassium metasilicate)

14.3. Transport hazard class(es)

Class 8

Label 8

14.4. Packing group

Packing group III

Limited Quantity 5 I

Transport category 3

Tunnel restriction code E

Marine transport IMDG/GGVSee

14.1. UN number

UN 1719

Miele ProCare Dent 10 A

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Replaces Version: - / US

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14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, dipotassium metasilicate)

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

14.5. Environmental hazards

no

IMDG-Code segregation 18 Alkalis
group

Air transport ICAO/IATA

14.1. UN number

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, dipotassium metasilicate)

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class WGK 1
(Germany)

Remarks Classification according to Annex 4 VwVwS

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

R-phrases listed in Chapter 3

22 Harmful if swallowed.
34 Causes burns.
35 Causes severe burns.
37 Irritating to respiratory system.

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4

Miele ProCare Dent 10 A

Version: 2 / US

Replaces Version: - / US

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Skin Corr. 1A

Skin corrosion, Category 1A

Skin Corr. 1B

Skin corrosion, Category 1B

STOT SE 3

Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.