

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

072141760

N/A



**Miele ProCare Dent 10 A**

Print date: 08.02.2013

Product code: 108\_6

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**After contact with skin**

After contact with skin, wash immediately with: Water.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. Consult physician immediately.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media**

Water fog. Water. Foam.

**Extinguishing media which must not be used for safety reasons**

none / none

**Special hazards arising from the substance or mixture**

none / none

**Advice for firefighters**

none / none

**Additional information**

Extinguishing materials should be selected according to the surrounding area.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. See protective measures under point 7 and 8.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**Reference to other sections**

not applicable

**SECTION 7: Handling and storage**

**Precautions for safe handling**

**Advice on safe handling**

All working processes must always be organised so that the following can be ruled out: skin contact.  
Eye contact.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

No special technical protective measures are necessary.

**Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

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**Control parameters****Additional advice on limit values**

To date, no national limit values exist.

**Exposure controls****Protective and hygiene measures**

Do not eat, drink, smoke or sneeze at the workplace.

**Hand protection**

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. In case of reutilization, clean gloves before taking off and store in well-aired place.

Duration of wearing with occasional contact (splashes): Duration of wearing with permanent contact: Suitable material:

Butyl rubber.FKM (Fluoroelastomer (Viton)). NBR (Nitrile rubber). CR (polychloroprenes, Chloroprene rubber). NR (Natural rubber (Caoutchouc), Natural latex). PVC (Polyvinyl chloride).

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

**Eye protection**

Suitable eye protection: Framed glasses. Tightly sealed safety glasses. EN 166

**Skin protection**

Take off immediately all contaminated clothing

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: characteristic

**Test method**

pH-Value (at 20 °C): ca. 14

**Changes in the physical state**

Melting point: No data available  
Boiling point: No data available  
Flash point: not applicable

**Explosive properties**

not applicable

Lower explosion limits: not applicable  
Upper explosion limits: not applicable  
Ignition temperature: not applicable

**Auto-ignition temperature**

not applicable

Solid:

Gas:

**Oxidizing properties**

none / none

Vapour pressure: No data available  
Density: No data available  
Water solubility: easily soluble.

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Partition coefficient:

No data available

Vapour density:

No data available

**Other information**

No data available

**SECTION 10: Stability and reactivity**

**Conditions to avoid**

No special measures are necessary.

**Incompatible materials**

Reacts with : acid, concentrated.

**Hazardous decomposition products**

No data available

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Acute toxicity, oral LD50: calculated. mg/kg bw: > 3000

**Irritation and corrosivity**

corrosive.

**Sensitizing effects**

none / none

**Severe effects after repeated or prolonged exposure**

none / none

**Carcinogenic/mutagenic/toxic effects for reproduction**

none / none

**Name of toxicologically synergistic products**

No data available

**Further information**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 12: Ecological information**

**Persistence and degradability**

not applicable. product is inorganic.

**Bioaccumulative potential**

No indication of bio-accumulation potential.

**Mobility in soil**

No data available

**Other adverse effects**

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

**Further information**

The evaluation was carried out according to the calculation method of the Preparations Directive.

**SECTION 13: Disposal considerations**

**Waste treatment methods**

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**Advice on disposal**

Consult the local waste disposal expert about waste disposal.

**Contaminated packaging**

Completely emptied packings can be re-cycled.

Waste disposal according to official state regulations.

**SECTION 14: Transport information****Canadian TDG**

**UN/ID number:** UN1719  
**Proper shipping name** CAUSTIC ALKALI LIQUID, N.O.S.(alkaline silicates)  
**Hazard classes:** 8  
**Packing group:** III  
Hazard label: 8  
Limited quantity: 5 L

**Marine transport (IMDG)**

**UN number:** UN1719  
**UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S.(alkaline silicates)  
**Transport hazard class(es):** 8  
**Packing group:** III  
Hazard label: 8



Marine pollutant: no  
Limited quantity: 5 L  
EmS: F-A, S-B  
Segregation group: alkalis

**Other applicable information (marine transport)**

E1

**Air transport (ICAO)**

**UN number:** UN1719  
**UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S. (alkaline silicates)  
**Transport hazard class(es):** 8  
**Packing group:** III  
Hazard label: 8



Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 852  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 856  
IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**

E1

: Y841

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**SECTION 15: Regulatory information**

**Canadian regulations**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**DSL/NDSL inventory status**

All ingredients are listed on the DSL/NDSL.

**WHMIS classification**

Class E - Corrosive



**Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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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

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### 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

### 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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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

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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

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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

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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

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Value	appr. 14
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flash point</b>	
Remarks	Not applicable
<b>Evaporation rate (ether = 1) :</b>	
Remarks	not determined
<b>Flammability (solid, gas)</b>	
evaluation	not determined
<b>Upper/lower flammability or explosive limits</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Value	1,48 g/cm <sup>3</sup>
<b>Solubility in water</b>	

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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

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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	

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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

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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 group 18 Alkalis

## 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 (Germany) WGK 1

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



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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.