

Trade name: Miele ProCare Dent 10 A

Version: 4 / US

Replaces Version: 3 / US Date revised: 28.09.2022

Print date: 23.01.23

## **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** **Identified Uses**

PC35                      Washing and cleaning products (including solvent based products)

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Miele & Cie. KG  
Carl-Miele-Straße 29  
33241 Gütersloh  
Telephone no.            +49 5241 89 0  
Fax no.                    +49 5241 89 2090  
E-mail address of  
person responsible      sida@drweigert.de  
for this SDS

#### **Address/Supplier**

Miele Inc.  
9 Independence Way  
Princeton, NJ 08540  
Telephone no.            +1-800-991-9380

### **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 according to OSHA Hazard Communication Standard 29 CFR 1910:1200**

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Skin Corr. 1B	H314
Eye Dam. 1	H318
Met. Corr. 1	H290

### **2.2. Label elements**

#### **Labelling according to OSHA Hazard Communication Standard 29 CFR 1910:1200**

#### **Hazard pictograms**



#### **Signal word**

Danger

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## Hazard statements

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

## Precautionary statements

### Prevention

P264.1 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P363 Wash contaminated clothing before reuse.

### Storage/Disposal

P405 Store locked up.  
P501.1 Dispose of contents/container to industrial incineration plant.

## Hazardous component(s) to be indicated on label

contains disodium metasilicate;potassium silicate

## 2.3. Other hazards

### Supplemental information

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients according to OSHA Hazard Communication Standard 29 CFR 1910:1200

##### disodium metasilicate

CAS No.	6834-92-0				
Concentration	>=	10	<	25	%

##### potassium silicate

CAS No.	1312-76-1				
Concentration	>=	10	<	25	%

##### potassium hydroxide

CAS No.	1310-58-3				
Concentration			<	1	%

### Other information

Complete text of hazard statements in chapter 16

## SECTION 4: First aid measures

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#### **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**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

##### **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.

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## 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

#### Recommended storage temperature

Value > -15 < 30 °C

#### 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

#### 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. Particle filter P2

#### Hand protection

Chemical resistant gloves  
Use Permanent hand contact  
Appropriate Material neoprene

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Material thickness	>=	0,65
Breakthrough time	>	480
Appropriate Material		nitrile
Material thickness	>=	0,4
Breakthrough time	>	480
Appropriate Material		butyl
Material thickness	>=	0,7
Breakthrough time	>	480
Use		Short-term hand contact
Appropriate Material		nitrile
Material thickness	>=	0,11
Hand protection must comply with EN ISO 374.		

### Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

### 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
Temperature	20 °C
<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>	
Remarks	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
Remarks	Not applicable
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined

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**Density**

Value	1,48		g/cm <sup>3</sup>
Temperature	20	°C	

**Solubility in water**

Remarks miscible in all proportions

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks Not applicable

**Decomposition temperature**

Remarks not determined

**Viscosity****dynamic**

Value	< 50		mPa.s
Temperature	20	°C	

**Explosive properties**

evaluation no

**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. Corrodes aluminium.

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

#### **Acute oral toxicity (Components)**

##### **disodium metasilicate**

Species	rat		
LD50		1150	mg/kg

#### **Acute dermal toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Acute dermal toxicity (Components)**

##### **disodium metasilicate**

Species	rat		
LD50	>	5000	mg/kg

#### **Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Skin corrosion/irritation**

evaluation	corrosive
Remarks	The classification criteria are met.

#### **Serious eye damage/irritation**

evaluation	corrosive
Remarks	The classification criteria are met.

#### **Sensitization**

Remarks Based on available data, the classification criteria are not met.

#### **Subacute, subchronic, chronic toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

#### **National Toxicology Program (NTP)**

No component of this product present at levels greater than or equal to 0,1% is identified as a known or reasonably anticipated to be human carcinogen by NTP

#### **International Agency for research on Cancer (IARC)**

No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by IARC

#### **Specific Target Organ Toxicity (STOT)**

##### **Single exposure**

Remarks Based on available data, the classification criteria are not met.

##### **Repeated exposure**

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Remarks Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

There is no data available on the product apart from the information given in this subsection.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****disodium metasilicate**

Species	zebra fish ( <i>Brachydanio rerio</i> )	
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

**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

**Evaluation of persistence and bioaccumulation potential**

The product contains no PBT or vPvB substances.

**12.6. Other adverse effects****General information**

not determined



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## 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




The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

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

## SECTION 14: Transport information

	Ground transport DOT	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
IMDG-Code segregation group		18 Alkalis	
14.1. UN number	1719	1719	1719
14.2. UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, potassium silicate)	CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, potassium silicate)	CAUSTIC ALKALI LIQUID, N.O.S. (disodium metasilicate, potassium silicate)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	III	III
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards		no	

## Information for all modes of transport

### 14.6. Special precautions for user

See Sections 6 to 8

## Other information

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**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other regulations, restrictions and prohibition regulations**

Observe employment restrictions for young people.

**Other information**

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

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355)**

The product does not contain any listed components.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

The product does not contain any listed components.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

Warning! This product may contain trace quantities of substance(s) known to the state of California to cause cancer and/or reproductive toxicity – not added as a part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

**SECTION 16: Other information****Abbreviations**

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

VOC: Volatile Organic Compound

LD: Lethal dose

LC: Lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)

IBC: Intermediate Bulk Container

CAS: Chemical Abstracts Service

ISO: International Organization for Standardization

OEL: Occupational exposure limit

OECD: Organisation for Economic Co-operation and Development

UN: United Nations

IMO: International Maritime Organization

**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.