

Miele ProCare Dent 30 P

Version: 2 / US

Replaces Version: - / US Date revised: 12.09.2019

Print date: 06.11.19

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 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**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

Storage/Disposal

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

contains Phosphoric acid

2.3. Other hazards**Supplemental information**

No special hazards have to be mentioned. The product contains no PBT or vPvB substances.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients according to OSHA Hazard Communication Standard 29 CFR 1910:1200****Phosphoric acid**

CAS No. 7664-38-2
Concentration >= 50 %

citric acid

CAS No. 77-92-9
Concentration >= 1 < 10 %

Other information

Complete text of hazard statements in chapter 16

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

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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.

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.

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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

Appropriate Material

Material thickness

Breakthrough time

Appropriate Material

Material thickness

Breakthrough time

Appropriate Material

Material thickness

Breakthrough time

Permanent hand contact

neoprene

>= 0,65

> 480

nitrile

>= 0,4

> 480

butyl

>= 0,7

> 480

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Use Short-term hand contact
Appropriate Material nitrile
Material thickness \geq 0,11
Hand protection must comply with EN 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**

| | |
|---|-----------------------------|
| Form | liquid |
| Colour | colourless |
| Odour | characteristic |
| Odour threshold | |
| Remarks | not determined |
| pH value | |
| Value | appr. 0,7 |
| Temperature | 20 °C |
| 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) | |
| Not applicable | |
| Upper/lower flammability or explosive limits | |
| Remarks | Not applicable |
| Vapour pressure | |
| Remarks | not determined |
| Vapour density | |
| Remarks | not determined |
| Density | |
| Value | 1,47 g/cm ³ |
| Temperature | 20 °C |
| Solubility in water | |
| Remarks | miscible in all proportions |
| Solubility(ies) | |
| Remarks | not determined |

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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 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

Reactions with metals, with evolution of hydrogen. Reactions with alkalis.

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**ATE > 2000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.**Acute oral toxicity (Components)**

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Phosphoric acid

| | | | |
|---------|-----|------|-------|
| Species | rat | | |
| LD50 | | 2600 | mg/kg |

citric acid

| | | | |
|---------|-----|-------|-------|
| Species | rat | | |
| LD50 | | 11700 | mg/kg |

citric acid

| | | | |
|---------|-------|------|-------|
| Species | mouse | | |
| LD50 | | 5040 | mg/kg |

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Phosphoric acid

| | | | |
|---------|--------|------|-------|
| Species | rabbit | | |
| LD50 | | 2740 | 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

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

Aspiration hazard

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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)

Phosphoric acid

| | | | |
|----------------------|---------------|---|------|
| Species | mosquito fish | | |
| LC50 | 138 | | mg/l |
| Duration of exposure | 96 | h | |

citric acid

| | | | |
|----------------------|---------------------------------------|----|----------|
| Species | golden orfe (<i>Leuciscus idus</i>) | | |
| LC50 | 440 | to | 706 mg/l |
| Duration of exposure | 96 | h | |

Daphnia toxicity (Components)

Phosphoric acid

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | > 100 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

citric acid

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | 120 | | mg/l |
| Duration of exposure | 72 | h | |

Algae toxicity (Components)

Phosphoric acid

| | | | |
|----------------------|-------------------------|---|------|
| Species | Scenedesmus subspicatus | | |
| EC50 | > 100 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

12.2. Persistence and degradability

General information

not determined

Ready degradability (Components)

citric acid

Remarks The product is biodegradable.

12.3. Bioaccumulative potential

General information

not determined

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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

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

| | Ground transport DOT | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|---|
| 14.1. UN number | 1805 | 1805 | 1805 |
| 14.2. UN proper shipping name | PHOSPHORIC ACID, SOLUTION | PHOSPHORIC ACID, SOLUTION | PHOSPHORIC ACID, SOLUTION |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| Label |  |  |  |
| 14.4. Packing group | III | III | III |
| Limited Quantity | 5 l | | |

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| | | | |
|-----------------------------|---|---------|--|
| Transport category | 3 | | |
| 14.5. Environmental hazards | | no | |
| Tunnel restriction code | E | | |
| IMDG-Code segregation group | | 1 Acids | |

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 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 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

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

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

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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.