

Miele ProCare Dent 30 C

Version: 4 / CA

Replaces Version: 3 / CA Date revised: 02.03.2022

Print date: 02.03.22

1. Identification

1.1. Product identifier

Miele ProCare Dent 30 C

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:

Miele Ltd.
161 Four Valley Drive
Vaughan, ON L4K 4V8
Telephone no. +1-888-325-3957
www.mieleprofessional.ca

E-mail address of person responsible for this SDS:

sida@drweigert.de

Manufacturer:

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

1.4. Emergency telephone number

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

2. Hazard identification

2.1. Classification of the substance or mixture

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

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| | |
|-------------------|------|
| Eye Irrit. 2 | H319 |
| Skin Sens. 1 | H317 |
| Aquatic Chronic 3 | H412 |

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms**

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Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 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 2-octyl-2H-isothiazol-3-one

2.3. Other hazards

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

3. Composition/Information on ingredients

3.2. Mixtures

Hazardous ingredients

citric acid

CAS No. 77-92-9
 EINECS no. 201-069-1
 Registration no. 01-2119457026-42
 Concentration \geq 25 < 50 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319

2-octyl-2H-isothiazol-3-one

CAS No. 26530-20-1
 EINECS no. 247-761-7
 Concentration \geq 0,0025 < 0,025 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 2 H330 Route of exposure: inhalative
 Acute Tox. 3 H311 Route of exposure: dermal
 Acute Tox. 3 H301 Route of exposure: oral
 Skin Corr. 1 H314
 Eye Dam. 1 H318
 Skin Sens. 1A H317
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

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

| | | |
|-------------------|------|-------------|
| Skin Sens. 1A | H317 | >= 0,0015 % |
| Aquatic Acute 1 | | M = 100 |
| Aquatic Chronic 1 | | M = 100 |

Other information

Complete text of hazard statements in chapter 16

4. First-aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water.

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.

5. Fire-fighting 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

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and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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.

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 10-13 Other combustible and non-combustible substances

7.3. Specific end use(s)

no data

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. 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.

Respiratory protection

Not necessary, but do not inhale vapours. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Chemical resistant gloves

Use

Permanent hand contact

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| | |
|--|-------------------------|
| Appropriate Material | neoprene |
| 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 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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------|
| Form | liquid |
| Colour | colourless |
| Odour | odourless |
| Odour threshold | |
| Remarks | not determined |
| pH value | |
| Value | appr. 1,0 |
| Temperature | 20 °C |
| Melting point | |
| Remarks | not determined |
| Freezing point | |
| Remarks | not determined |
| Initial boiling point and boiling range | |
| Value | > 100 °C |
| Flash point | |
| Remarks | Not applicable |
| Evaporation rate (ether = 1) : | |
| Remarks | not determined |
| Flammability (solid, gas) | |
| evaluation | Not applicable |
| Upper/lower flammability or explosive limits | |
| Remarks | Not applicable |
| Vapour pressure | |
| Remarks | not determined |
| Vapour density | |

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Remarks not determined

DensityValue 1,17 g/cm³
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 < 10 mPa.s
Temperature 20 °C**Explosive properties**

evaluation no

Oxidising properties

evaluation None known

9.2. Other information**Other information**

None known

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 alkalis.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

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

Acute oral toxicity (Components)**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 inhalational toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

| | |
|------------|--------------------------------------|
| evaluation | irritant |
| Remarks | The classification criteria are met. |

Sensitization

| | |
|------------|--|
| evaluation | May cause sensitization by skin contact. |
| Remarks | The classification criteria are 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.

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

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.

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12. Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

citric acid

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

Daphnia toxicity (Components)

citric acid

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

12.2. Persistence and degradability

General information

not determined

Ready degradability (Components)

citric acid

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

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.

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

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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.

14. Transport information

| | Land transport TDG | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|------------------------|--|---|---|
| 14.1. UN number | The product does not constitute a hazardous substance in land transport. | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

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

15. Regulatory information

15.2. Chemical safety assessment

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

16. Other information

Hazard statements listed in Chapter 3

| | |
|------|---|
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

CLP categories listed in Chapter 3

| | |
|-------------------|---|
| Acute Tox. 2 | Acute toxicity, Category 2 |
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Skin Corr. 1 | Skin corrosion, Category 1 |
| Skin Sens. 1A | Skin sensitization, Category 1A |

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

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ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
CAS: Chemical Abstracts Service
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)
ISO: International Organization for Standardization
OECD: Organisation for Economic Co-operation and Development
IMO: International Maritime Organization
UN: United Nations
EU: European Union

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.