

Trade name: Miele ProCare Lab 10 AO

Version: 3 / US

Replaces Version: - / US Date revised: 09.02.2022

Print date: 28.09.22

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Miele ProCare Lab 10 AO

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

sida@drweigert.de

person responsible

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. 1A H314

Eye Dam. 1 H318

Met. Corr. 1 H290

Aquatic Acute 1 H400

Aquatic Chronic 2 H411

2.2. Label elements**Labelling according to OSHA Hazard Communication Standard 29 CFR 1910:1200****Hazard pictograms****Signal word**

Safety Data Sheet according to Appendix D, OSHA Hazard Communication Standard 29 CFR 1910:1200

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Danger

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.
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 potassium hydroxide;sodium hypochlorite, solution

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

potassium hydroxide

CAS No.	1310-58-3				
Concentration	>=	10	<	25	%

sodium hypochlorite, solution

CAS No.	7681-52-9				
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.

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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.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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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 > 0 < 25 °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

Further information on storage conditions

Protect from heat and direct sunlight. Do not keep the container sealed.

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. Short term: filter apparatus, combination filter B-P3

Hand protection

Chemical resistant gloves	
Use	Permanent hand contact
Appropriate Material	neoprene
Material thickness	>= 0,65
Breakthrough time	> 480

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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. Protective shoes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	light yellow
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Value	appr. 14
Temperature	20 °C
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	appr. 100 °C
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	1,31 g/cm ³

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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

Remarks not determined

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

Do not keep the container sealed. Protect from heat and direct sunlight.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Strong exothermic reaction with acids. Evolution of chlorine under influence of acids. Corrodes aluminium.

10.6. Hazardous decomposition products

Chlorine, Irritant gases/vapours

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute oral toxicity

Species	rat	
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)

potassium hydroxide

Species	rat	
LD50	333	mg/kg

sodium hypochlorite, solution

Species	rat	
LD50	1100	mg/kg

Acute dermal toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute dermal toxicity (Components)

sodium hypochlorite, solution

Species	rabbit	
LD50	>	20000 mg/kg
Method	OECD 402	

Acute inhalational toxicity

ATE	>	100 mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

Acute inhalative toxicity (Components)

sodium hypochlorite, solution

Species	rat	
LC50	10,5	mg/l
Duration of exposure	1	h
Administration/Form	Vapors	
Method	OECD 403	

Skin corrosion/irritation

evaluation	strongly corrosive
Remarks	The classification criteria are met.

Serious eye damage/irritation

evaluation	strongly corrosive
Remarks	The classification criteria are met.

Sensitization

Remarks	Based on available data, the classification criteria are not met.
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Subacute, subchronic, chronic toxicity

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

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

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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)

Components of this product, which are identified as known or reasonably anticipated to be human carcinogen by IARC, contained greater than or equal to 0,1 %: sodium hypochlorite, solution

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.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

potassium hydroxide

Species	mosquito fish		
LC50	80		mg/l
Duration of exposure	24	h	
Source	ECHA		

sodium hypochlorite, solution

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	0,06		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)

sodium hypochlorite, solution

Species	Daphnia magna		
EC50	0,141		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)

sodium hypochlorite, solution

EC50	0,0499		mg/l
Duration of exposure	7	d	

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Source

Manufacturer's data

Bacteria toxicity (Components)**sodium hypochlorite, solution**

Species

activated sludge

EC50

77,1

mg/l

Duration of exposure

3

h

Method

OECD 209

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

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







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	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. (potassium hydroxide, sodium hypochlorite, solution)	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, sodium hypochlorite, solution)	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, sodium hypochlorite, solution)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

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)**

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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
UN: United Nations

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.