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## **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

Acute Tox. 4	H302
Skin Corr. 1A	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**

H302 Harmful if swallowed.  
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 potassium hydroxide ...%

**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 \*\*\*****potassium hydroxide**

CAS No.	1310-58-3				
Concentration	>=	25	<	50	%

**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**

After contact with skin, wash immediately with plenty of water. Take medical treatment.

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### **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 > 0 < 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
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

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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, clear  
**Colour** colourless to yellowish  
**Odour** characteristic  
**Odour threshold**  
Remarks not determined  
**pH value**  
Value  $>$  14  
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 1,38 g/cm<sup>3</sup>  
Temperature 20 °C  
**Solubility in water**  
Remarks miscible in all proportions  
**Solubility(ies)**

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Remarks not determined

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

Remarks not determined

**Auto-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.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**ATE 1000 to 2000 mg/kg  
Method calculated value (Regulation (EC) No. 1272/2008)  
Remarks The classification criteria are met.

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**Acute oral toxicity (Components)****potassium hydroxide ...%**

Species	rat		
LD50	333		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**

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.

**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**

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**

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**General information**

not determined

**Fish toxicity (Components)****potassium hydroxide ...%**

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

**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	
<b>14.1. UN number</b>	1814	1814	1814
<b>14.2. UN proper shipping name</b>	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION
<b>14.3. Transport hazard class(es)</b>	8	8	8
Label			
<b>14.4. Packing group</b>	II	II	II
Limited Quantity	1 I		
Transport category	2		
<b>14.5. Environmental hazards</b>		no	

## 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 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

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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.