

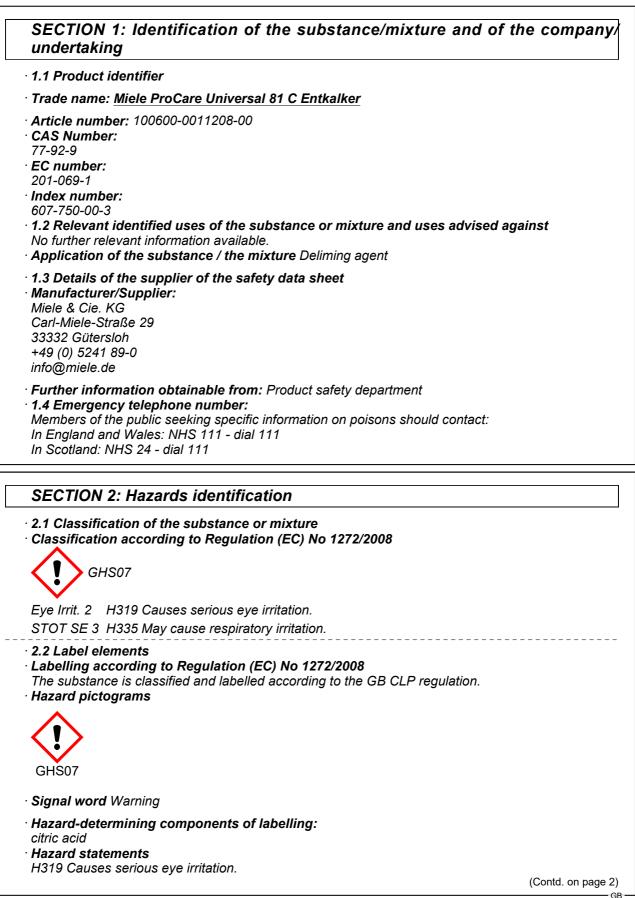
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### Safety data sheet according to UK REACH

Printing date 13.02.2025

Version number 1.00

Revision: 13.02.2025



### Safety data sheet

according to UK REACH Version number 1.00

Revision: 13.02.2025

### Trade name: Miele ProCare Universal 81 C Entkalker

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	se respiratory irritation.
Precautionary	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 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.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
2.3 Other haza	-
Results of PB	T and vPvB assessment

· PBT: Not applicable.

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**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 77-92-9 citric acid
- · Identification number(s)
- EC number: 201-069-1
- · Index number: 607-750-00-3

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** No special precautions are necessary if used correctly. • **Information about fire - and explosion protection:** No special measures required.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 11

· 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

· Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.5 mm

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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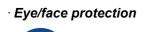
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Tightly sealed goggles

### SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties • General Information

· General Information	
Physical state	Solid
· Colour:	White
Odour:	Odourless
· Odour threshold:	Not determined.
	153 °C
Melting point/freezing point:	155 C
Boiling point or initial boiling point and	
boiling range	Undetermined.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
· Upper:	Not determined.
Flash point:	>93 °C
Auto-ignition temperature:	1010 °C (77-92-9 citric acid)
Decomposition temperature:	Not determined.
PH	2.2 (1%)
Viscosity:	
Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
Solubility	
water at 20 °C:	600 g/l
Partition coefficient n-octanol/water (log	
value)	Not determined.
· Vapour pressure:	Not applicable.
<ul> <li>Density and/or relative density</li> </ul>	
· Density at 20 °C:	1.665 g/cm³
Relative density	Not determined.
Bulk density:	900 kg/m³
Vapour density	Not applicable.
	Not applicable.
· Vapour density · 9.2 Other information	Not applicable.
Vapour density	
Vapour density 9.2 Other information Appearance: Form:	Powder
Vapour density 9.2 Other information Appearance: Form: Important information on protection of hea	Powder
Vapour density 9.2 Other information Appearance: Form: Important information on protection of hea and environment, and on safety.	Powder Ith
Vapour density 9.2 Other information Appearance: Form: Important information on protection of hea and environment, and on safety. Ignition temperature:	Powder Ith Not determined.
Vapour density 9.2 Other information Appearance: Form: Important information on protection of hea and environment, and on safety. Ignition temperature: Explosive properties:	Powder Ith Not determined. Product does not present an explosion hazard.
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Vapour density 9.2 Other information Appearance: Form: Important information on protection of hea and environment, and on safety. Ignition temperature: Explosive properties: Molecular weight Change in condition	Powder Ith Not determined. Product does not present an explosion hazard. 192.13 g/mol
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<ul> <li>Vapour density</li> <li>9.2 Other information</li> <li>Appearance:</li> <li>Form:</li> <li>Important information on protection of hea and environment, and on safety.</li> <li>Ignition temperature:</li> <li>Explosive properties:</li> <li>Molecular weight</li> <li>Change in condition</li> <li>Evaporation rate</li> <li>Information with regard to physical haza classes</li> <li>Explosives</li> <li>Flammable gases</li> <li>Aerosols</li> </ul>	Powder Ith Not determined. Product does not present an explosion hazard. 192.13 g/mol Not applicable. ard Void Void Void Void Void
<ul> <li>Vapour density</li> <li>9.2 Other information</li> <li>Appearance:</li> <li>Form:</li> <li>Important information on protection of hea and environment, and on safety.</li> <li>Ignition temperature:</li> <li>Explosive properties:</li> <li>Molecular weight</li> <li>Change in condition</li> <li>Evaporation rate</li> <li>Information with regard to physical haza classes</li> <li>Explosives</li> <li>Flammable gases</li> </ul>	Powder Ith Not determined. Product does not present an explosion hazard. 192.13 g/mol Not applicable. Ard Void Void

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· Flammable liquids	Void	
· Flammable solids	Void	
• Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

### 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

77-92-9 citric acid

Oral LD50 5040 mg/kg (mouse)

Primary irritant effect:

- · Serious eye damage/irritation Causes serious eye irritation.
- STOT-single exposure May cause respiratory irritation.
- · 11.2 Information on other hazards
- Endocrine disrupting properties
- Substance is not listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN number or ID number		
ADR, IMDG, IATA	not regulated	
14.2 UN proper shipping name ADR, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	not regulated	
14.4 Packing group		
ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk accordi	ng to	
IMO instruments	Not applicable.	
UN "Model Regulation":	not regulated	

### SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act

· Regulated explosives precursors

Substance is not listed.

Regulated poisons

Substance is not listed.

Reportable explosives precursors

Substance is not listed.

Reportable poisons

Substance is not listed.

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· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Regulatory Affairs

· Contact: Dr. Bogner

• Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • \* Data compared to the previous version altered.

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