

**Safety data sheet
according to UK REACH**

Printing date 18.12.2025

Version number 2.5 (replaces version 2.4)

Revision: 18.12.2025

**SECTION 1: Identification of the substance/mixture and of the company/
undertaking**

- **1.1 Product identifier**
- **Trade name: Miele ProCare Shine 12GC Tabs**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Dishwasher formulation
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Miele & Cie. KG
Carl-Miele-Straße 29
33332 Gütersloh
Tel.: +49 (0)5241/89-0
Fax.: +49 (0)5241/89-2090
www.miele-professional.com

claro products GmbH
Sonystraße 20
A-5081 Anif
Tel.: +43 (0)6232/2626
Fax.: +43 (0)6232/2626-575
office@claro.at
www.claro.at
- **Further information obtainable from:**
Labor: Tel.: +43 (0) 6232 / 2626 - 568
Contact: Mr. Dr. Lukasser; josef.lukasser@claro.at
- **1.4 Emergency telephone number:**
Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS07

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- **Signal word** Warning
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear eye protection / face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **Additional information:**
Contains Protease (Subtilisin). May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8	sodium carbonate ⚠ Eye Irrit. 2, H319	15-30%
CAS: 1344-09-8 EINECS: 215-687-4	Silicic acid, sodium salt ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥15-<20%
CAS: 9004-34-6 EINECS: 232-674-9	Cellulose substance with a Community workplace exposure limit	15-30%
CAS: 15630-89-4 EINECS: 239-707-6	SODIUM CARBONATE PEROXIDE ⚠ Ox. Sol. 2, H272; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 Specific concentration limits: Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	5-15%
CAS: 10543-57-4 EINECS: 234-123-8	N,N'-Ethylenebis[N-acetylacetamide] ⚠ Acute Tox. 4, H332	0.2-5%
CAS: 9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether ⚠ Acute Tox. 4, H302	0.2-5%
CAS: 9014-01-1 EINECS: 232-752-2	Protease (Subtilisin) ⚠ Resp. Sens. 1, H334; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	≥0.2-<0.25%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

oxygen-based bleaching agents	≥5 - <15%
non-ionic surfactants, phosphonates, Subtilisin, Amylase, alpha-	<5%

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Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation: In case of unconsciousness place patient stably in side position for transportation.**After skin contact:**

Wash off with plenty of water. Remove clothing contaminated with product. In case of complaints, consult a doctor.

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 fire with alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: The usual measures for fire protection are to be taken.**Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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.

Pick up mechanically (wipe up, sweep up) and collect in suitable containers for disposal.

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

Ensure good ventilation of the workplace. Wear personal protective equipment. Avoid contact with eyes and skin.

Information about fire - and explosion protection: No special measures required.

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- **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:** 13
- **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:**

9004-34-6 Cellulose

WEL	Short-term value: 20* mg/m ³
	Long-term value: 10* 4** mg/m ³
	*inhalable dust **respirable

9014-01-1 Protease (Subtilisin)

WEL	Long-term value: 0.00004 mg/m ³
	Sen

· **DNELs**

497-19-8 sodium carbonate

Inhalative	DNEL Langzeit - lokale Wirkung	10 mg/m ³ (worker)
	DNEL Akut - lokale Wirkung	10 mg/m ³ (Consumer)

1344-09-8 Silicic acid, sodium salt

Oral	DNEL Langzeit - lokale Wirkung	1.59 mg / kg KG / Tag (worker)
Inhalative	DNEL Langzeit - lokale Wirkung	5.61 mg/m ³ (worker)

15630-89-4 SODIUM CARBONATE PEROXIDE

Dermal	DNEL Akut - lokale Wirkung	12.8 mg/cm ² (worker)
		6.4 mg/cm ² (Consumer)
Inhalative	DNEL Langzeit - lokale Wirkung	5 mg/m ³ (worker)

10543-57-4 N,N'-Ethylenebis[N-acetylacetamide]

Oral	DNEL Langzeit - systemische Wirkung	0.45 mg/kg KG/Tag (human)
Dermal	DNEL Langzeit - systemische Wirkung	10 mg / kg KG / Tag (Consumer)
		20 mg / kg KG / Tag (worker)
Inhalative	DNEL Langzeit - lokale Wirkung	75 mg/m ³ (Consumer)
		6.4 mg/m ³ (worker)

9014-01-1 Protease (Subtilisin)

Inhalative	DMEL Langzeit - lokale Wirkung	60 ng/m ³ (worker)
		15 ng/m ³ (Consumer)

· **PNECs**

1344-09-8 Silicic acid, sodium salt

PNEC STP	348 mg/l (watertreatment plant)
PNEC aquatic	7,500 µg/l (algae)

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15630-89-4 SODIUM CARBONATE PEROXIDE

PNEC STP	16.24 mg/l (watertreatment plant)
PNEC aquatic	35 µg/l (Algae)

10543-57-4 N,N'-Ethylenebis[N-acetylacetamide]

PNEC STP	10 mg/l (watertreatment plant)
PNEC aquatic	10 µg/l (algae)

9014-01-1 Protease (Subtilisin)

PNEC STP	65 mg/l (watertreatment plant)
PNEC aquatic	0.17 µg/l (seawater) 1.7 µg/l (Freshwater)
PNEC Boden	0.568 mg/kg (Soil)

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

· 8.2 Exposure controls

· **Appropriate engineering controls** Ensure good ventilation of the workplace.

· **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 and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Wear a dust mask if dust is generated: dust mask with filter type P2 (EN143) or fine dust mask FFP2 / FFP3 (EN149).

· **Hand protection**



Protective gloves according to EN 374

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

· **Material of gloves**

Recommended material thickness: ≥ 0.4mm

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Natural rubber, NR

· **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.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

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· Eye/face protection



Safety goggles according to EN166

· Body protection:

The above advice on protective equipment refers to commercial handling of larger quantities.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Solid

· Colour:

According to product specification

· Odour:

Characteristic

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

Undetermined.

· Flammability

Not determined.

· Lower and upper explosion limit

· Lower:

Not determined.

· Upper:

Not determined.

· Flash point:

Not applicable.

· Decomposition temperature:

Not determined.

· pH at 20 °C

10.7 (1%)

· Viscosity:

· Kinematic viscosity

Not applicable.

· Dynamic:

Not applicable.

· Solubility

· water:

Soluble.

· Partition coefficient n-octanol/water (log value)

Not determined.

· Vapour pressure:

Not applicable.

· Density and/or relative density

· Density:

Not determined.

· Relative density

Not determined.

· Vapour density

Not applicable.

· 9.2 Other information

· Appearance:

· Form:

Solid

· Important information on protection of health and environment, and on safety.

· Ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Solvent content:

· Solids content:

97.0 %

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· Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· 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** The product is not reactive under normal conditions of use, storage and transport.
- **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 if used according to specifications.
- **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:

497-19-8 sodium carbonate

Oral	LD50	4,090 mg/kg (rat)
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1344-09-8 Silicic acid, sodium salt

Oral	LD50	3,400 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	2.06 mg/l (rat)

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15630-89-4 SODIUM CARBONATE PEROXIDE

Oral	LD50	1,034 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

10543-57-4 N,N'-Ethylenebis[N-acetylacetamide]

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>2.08 mg/l (rat)

9038-95-3 Oxirane, methyl-, polymer with oxirane, monobutyl ether

Oral	LD50	>300-2,000 mg/kg (rat)
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9014-01-1 Protease (Subtilisin)

Oral	LD50	1,800 mg/kg (rat)
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Primary irritant effect:

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Additional toxicological information:** Irritating to skin
- **11.2 Information on other hazards**

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
497-19-8 sodium carbonate

LC50/96 h (static)	300 mg/l (Lepomis macrochirus)
EC50/48 h	200-227 mg/l (Ceriodaphnia dubia)

1344-09-8 Silicic acid, sodium salt

LC50/96 h	310 mg/l (Oncorhynchus mykiss)
ErC50/72h	>345.4 mg/l (algae)
EC50/48 h	1,700 mg/l (Daphnia magna)

15630-89-4 SODIUM CARBONATE PEROXIDE

LC50/96 h	70.7 mg/l (Pimephales promelas)
EC50/48 h	4.9 mg/l (Daphnia pulex)
NOEC/48h	2 mg/l (Daphnia pulex)
NOEC/96h	7.4 mg/l (Pimephales promelas)

9038-95-3 Oxirane, methyl-, polymer with oxirane, monobutyl ether

LC50/96 h	>100 mg/l (Brachydanio rerio)
EC50/48 h	>100 mg/l (Daphnia magna)
EC50/72h	>100 mg/l (Scenedesmus subspicatus)

9014-01-1 Protease (Subtilisin)

LC50/96h	17.7 mg aep/l (Oncorhynchus mykiss)
EC50/72h	0.513 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	1.29 mg aep/l (daphnia)

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NOEC/48h	0.066 mg/l (daphnia)
NOEC/96h	10.2 mg/l (Oncorhynchus mykiss)
NOEC / 72h	0.073 mg/L (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability

The surfactants contained in this preparation fulfil the conditions of biodegradability as laid down in Regulation (EC) No 648/2004 on detergents. Documentation confirming this will be held at the disposal of the competent authorities of the Member States and will only be made available to them either at their direct request or at the request of a detergent manufacturer.

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.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): 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.

Take the contents and container to a recognised hazardous waste disposal company or to a hazardous waste collection point.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

European waste catalogue

07 06 01*	aqueous washing liquids and mother liquors
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Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Recycle or dispose of in accordance with the applicable legal requirements.

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

SECTION 14: Transport information

14.1 UN number or ID number

ADR, ADN, IMDG, IATA

Void

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- | | |
|---|-----------------|
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· Regulated explosives precursors
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None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **National regulations:**

- **Additional classification according to Decree on Hazardous Materials, Annex II: -**

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **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.

- **Relevant phrases**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Labor: Tel.: +43 (0)6232/2626-568· **Contact:** Mr. Josef Lukasser· **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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

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