

Safety Data Sheet according to HPR, Schedule 1

Printing date 11/15/2022

Reviewed on 11/15/2022

1 Identification

- **Product identifier**
- **Trade name: Miele ProCare Shine 12GC Tabs**
- **Application of the substance / the mixture** Dishwasher formulation
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Miele Ltd
161 Four Valley Drive
Vaughan, ON L4K 4V8
Telephone no. +1-888-325-3957
www.miele-professional.ca

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
- **Information department:**
Labor: Tel.: +43 (0) 6232 / 2626 - 568
Contact: Mr. Dr. Lukasser; josef.lukasser@claro.at
- **Emergency telephone number:**
Emergency hotline 911 or provincial poison control centre.
Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



GHS07

Skin Irritation - Category 2 H315 Causes skin irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

SODIUM CARBONATE PEROXIDE

Protease (Subtilisin)

Amylase

· **Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

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

· **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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 0

Reactivity = 0

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

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· Dangerous components:		
497-19-8	sodium carbonate ⚠ Eye Irritation - Category 2A, H319	10-30% w/w *
1344-09-8	Silicic acid, sodium salt ⚠ Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	10-30% w/w *
9004-34-6	Cellulose	10-30% w/w *
15630-89-4	SODIUM CARBONATE PEROXIDE ⚠ Oxidizing Solids – Category 2, H272; ⚠ Serious Eye Damage - Category 1, H318; ⚠ Acute Toxicity (Oral) - Category 4, H302	7-13% w/w *
9014-01-1	Protease (Subtilisin) ⚠ Respiratory Sensitizer - Category 1, H334; ⚠ Serious Eye Damage - Category 1, H318; ⚠ Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture**

No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Use neutralizing agent.

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Dispose contaminated material as waste according to item 13.

· **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.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:** No special measures required.

· **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 receptacle tightly sealed.

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

8 Exposure controls/ Personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

9004-34-6 Cellulose

EL	TWA: 10* 3** mg/m ³ *total dust, **respirable fraction
----	--

EV	TWA: 10 mg/m ³ paper fibre, total dust
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9014-01-1 Protease (Subtilisin)

EL	Ceiling: 0.00006 mg/m ³ S(R)
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EV	Ceiling: 0.00006 mg/m ³
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **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 skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· **Protection of hands:**



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **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. 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.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Solid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value at 20 °C:**

10.7 (1%)

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

Undetermined.

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not determined.

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

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· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Solids content:	97.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

497-19-8 sodium carbonate

Oral | LD50 | 4,090 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through inhalation.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

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Irritant
Irritating to skin

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

112926-00-8	Silicon dioxide	3
13463-67-7	titanium dioxide	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void

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· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

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

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

497-19-8	sodium carbonate	ACTIVE
1344-09-8	Silicic acid, sodium salt	ACTIVE
9004-34-6	Cellulose	ACTIVE
15630-89-4	SODIUM CARBONATE PEROXIDE	ACTIVE
164462-16-2	2-Aminopropionic acid, N,N-dicarboxymethyl-, trisodium salt	ACTIVE
50-70-4	Sorbitol	ACTIVE
10543-57-4	N,N'-Ethylenebis[N-acetylacetamide]	ACTIVE
9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether	ACTIVE
7757-82-6	Sodium sulphate	ACTIVE
25213-24-5	Polyvinyl Alcohol	ACTIVE
29329-71-3	(1-Hydroxyethyliden) - biphosphonsäure, Natriumsalz	ACTIVE
813-93-4	Bismutcitrat	ACTIVE
9014-01-1	Protease (Subtilisin)	ACTIVE
501019-91-6	Modified fatty alcohol polyglycoether	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
9000-90-2	Amylase	ACTIVE

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

497-19-8	sodium carbonate
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1344-09-8	Silicic acid, sodium salt
9004-34-6	Cellulose
15630-89-4	SODIUM CARBONATE PEROXIDE
164462-16-2	2-Aminopropionic acid, N,N-dicarboxymethyl-, trisodium salt
50-70-4	Sorbitol
10543-57-4	N,N'-Ethylenebis[N-acetylacetamide]
9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether
7757-82-6	Sodium sulphate
25213-24-5	Polyvinyl Alcohol
29329-71-3	(1-Hydroxyethyliden) - biphosphonsäure, Natriumsalz
112926-00-8	Silicon dioxide
501019-91-6	Modified fatty alcohol polyglycoether
13463-67-7	titanium dioxide

· **Canadian Non-Domestic Substances List (NDSL)**

813-93-4 | Bismutcitrat

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

497-19-8 | sodium carbonate

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

SODIUM CARBONATE PEROXIDE
Protease (Subtilisin)
Amylase

· **Hazard statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

· **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.

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P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/
international regulations.

- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials: -**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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:** Labor: Tel.: +43 (0)6232/2626-568
- **Contact:** Mr. Josef Lukasser
- **Date of the latest revision of the safety data sheet** 11/15/2022
- **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**

CA