

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

**Miele**  
PROFESSIONAL

## ProCare Shine 12

Print date: 15.02.2016

Product code:

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### 1. Identification

#### Product identifier

ProCare Shine 12

#### Recommended use of the chemical and restrictions on use

##### **Use of the substance/mixture**

Washing and cleaning products (including solvent based products)

##### **Uses advised against**

any non-intended use.

#### Details of the supplier of the safety data sheet

Company name:	Miele, Inc.	
Street:	9 Independence Way	
Place:	CY PRINCETON, NJ 08540	
Telephone:	+1 609 4194374	Telefax: +1 609 4191853
e-mail:	moreinfo@mieleusa.com	
Internet:	www.miele.com	

**Emergency phone number:** Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

### 2. Hazard(s) identification

#### Classification of the chemical

##### **29 CFR Part 1910.1200**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2A

Hazard Statements:

Causes serious eye irritation

#### Label elements

##### **29 CFR Part 1910.1200**

**Signal word:** Warning

**Pictograms:**



##### **Hazard statements**

Causes serious eye irritation

##### **Precautionary statements**

Wear eye/face protection.

If eye irritation persists: Get medical advice/attention.

#### Hazards not otherwise classified

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

### 3. Composition/information on ingredients

#### Mixtures

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### Hazardous components

CAS No	Components	Quantity
497-19-8	sodium carbonate	20 - 50 %
77-92-9	citric acid	10 - 20 %
15630-89-4	disodium carbonate, compound with hydrogen peroxide (2:3)	10 - 20 %
1344-09-8	Silicic acid, sodium salt	5 - 10 %
166736-08-9	Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	1 - 5 %
9014-01-1	Subtilisin	< 1 %

## 4. First-aid measures

### Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

### Most important symptoms and effects, both acute and delayed

No information available.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

### Specific hazards arising from the chemical

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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See protective measures under point 7 and 8. Do not breathe dust.

### Environmental precautions

Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Reference to other sections

See protective measures under point 7 and 8.

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Wear suitable protective clothing. See section 8.

#### **Advice on protection against fire and explosion**

Usual measures for fire prevention. Keep away from combustible material.

#### **Further information on handling**

Avoid generation of dust.

General protection and hygiene measures: refer to chapter 8

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Suitable material for Container: PE, PP, PVC

Unsuitable materials for Container: metal.

#### **Advice on storage compatibility**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and feedingstuffs.

#### **Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: Light. UV-radiation/sunlight. Heat (> 40°C). moisture.

## 8. Exposure controls/personal protection

### Control parameters

#### **Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
9014-01-1	Subtilisins, as 100% crystalline active pure enzyme	-	-		TWA (8 h)	TLV
			0.00006		Peak	TLV

### Exposure controls



#### **Appropriate engineering controls**

Dust should be exhausted directly at the point of origin.

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### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

### Eye/face protection

Dust protection goggles.

### Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Skin protection

Suitable protective clothing: Lab apron.

### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

### Environmental exposure controls

No special precautionary measures are necessary.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	solid
Color:	not determined
Odor:	characteristic

### Test method

pH-Value: ~10 (1% in aqueous solution)

### Changes in the physical state

Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined
Sustaining combustion:	Not sustaining combustion

### Explosive properties

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined

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Ignition temperature: not determined

### Auto-ignition temperature

Gas: not determined

### Oxidizing properties

none

Vapor pressure: not determined

Density: 1,1 g/cm<sup>3</sup>

Water solubility: very soluble

### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 0%

### Other information

Solid content: 100%

## 10. Stability and reactivity

### Reactivity

No information available.

### Chemical stability

Stability: Stable

The product is chemically stable under recommended conditions of storage, use and temperature.

Temperature of decomposition in °C: >50

Hazardous decomposition products: hydrogenium peroxide.

### Possibility of hazardous reactions

Hazardous reactions: May occur

No information available.

### Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

### Incompatible materials

Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated. amines. Reducing agents, strong. Metal powder. Combustible substance.

### Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological information

### Information on toxicological effects

#### Route(s) of Entry

Ingestion: May be harmful. Inhalation: May be harmful. Skin contact: May Cause Irritation. Eye contact:

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Irritating to eyes.

### Toxicokinetics, metabolism and distribution

No data available.

### Acute toxicity

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

CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
497-19-8	sodium carbonate				
	oral	LD50	2800 mg/kg	Rat	ECHA Dossier
	dermal	LD50	> 2000 mg/kg	Rabbit.	ECHA Dossier
15630-89-4	disodium carbonate, compound with hydrogen peroxide (2:3)				
	oral	LD50	893 mg/kg	Rat. female.	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rabbit.	ECHA Dossier
1344-09-8	Silicic acid, sodium salt				
	oral	LD50	3400 mg/kg	Rat	ECHA Dossier

### Irritation and corrosivity

Causes serious eye irritation  
disodium carbonate, compound with hydrogen peroxide (2:3):

SCL: Eye Dam. 1 > 25%

SCL: Eye Irrit. 2 10 - 25%

SCL = specific conc. limit

Silicic acid, sodium salt:

SCL: Skin Corr. 1B > 39

SCL: Eye Dam. 1 > 28-39%

SCL: Eye Irrit. 2 < 28%

### Sensitizing effects

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

### Specific target organ toxicity (STOT) - single exposure

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

### Severe effects after repeated or prolonged exposure

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

citric acid:

NOAEL = 1500 mg/kg

Silicic acid, sodium salt:

Subacute oral toxicity :

Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Exposure time: 28d

species: Rat

Results: NOAEL = 300 g/kg

literature information: ECHA Dossier

Subchronic oral toxicity:

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents). Species: Rat.

Result: NOAEL = 250 mg/kg. literature information: ECHA Dossier

### Carcinogenic/mutagenic/toxic effects for reproduction

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

sodium carbonate:

In vitro mutagenicity/genotoxicity:

Method: (AMES SALMONELLA TYPHIMURIUM): -

Result: negative.

literature information: FUJITA, H, AOKI, N AND SASAKI, M; MUTAGENICITY TEST OF FOOD ADDITIVES WITH SALMONELLA TYPHIMURIUM TA97 AND TA102. IX; TOKYO-TORITSU EISEI KENKYUSHO KENKYU NENPO 45:191-199, 1994

Reproductive toxicity:

Method: -

species: Mouse.

Exposure duration: 15d

Results: NOAEL = 340 mg/kg

literature information: Organization for Economic Cooperation and Development; SIDS Initial Assessment Profile (SIAP) for SIAM 15 (Boston, USA, 22-25 October 2002) Sodium carbonate (497-19-8) p.16.

Developmental toxicity/teratogenicity:

Method: -

species: Rat

Exposure duration: 15d

Results: NOAEL >= 245 mg/kg mg/L

literature information: ECHA Dossier

citric acid:

In-vivo mutagenicity: negative.

Silicic acid, sodium salt:

In vitro mutagenicity/genotoxicity:

Method:

-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

-OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

-In vitro Mammalian Cell Gene Mutation Test

literature information: ECHA dossier

Carcinogenicity (NTP): no substance listed.

Carcinogenicity (IARC): no substance listed.

Carcinogenicity (OSHA): no substance listed.

### Aspiration hazard

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

### Specific effects in experiment on an animal

No data available.

## 12. Ecological information

### Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Other adverse effects

No data available.

### Further information

Do not allow to enter into surface water or drains.

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### 13. Disposal considerations

#### Waste treatment methods

##### **Advice on disposal**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

##### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

### 14. Transport information

#### **US DOT 49 CFR 172.101**

##### **Proper shipping name:**

Not a hazardous material with respect to these transport regulations.

#### **Marine transport (IMDG)**

##### **UN number:**

No dangerous good in sense of this transport regulation.

##### **UN proper shipping name:**

No dangerous good in sense of this transport regulation.

##### **Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

##### **Packing group:**

No dangerous good in sense of this transport regulation.

#### **Air transport (ICAO)**

##### **UN number:**

No dangerous good in sense of this transport regulation.

##### **UN proper shipping name:**

No dangerous good in sense of this transport regulation.

##### **Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

##### **Packing group:**

No dangerous good in sense of this transport regulation.

#### **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

#### **Special precautions for user**

refer to chapter 6-8

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not relevant

### 15. Regulatory information

#### **U.S. Regulations**

##### **National Inventory TSCA**

all substances listed.

##### **National regulatory information**

SARA Section 311/312 Hazards:

sodium carbonate (497-19-8): Immediate (acute) health hazard

citric acid (77-92-9): Immediate (acute) health hazard

disodium carbonate, compound with hydrogen peroxide (2:3) (15630-89-4): Fire hazard, Immediate (acute) health hazard

Silicic acid, sodium salt (1344-09-8): Immediate (acute) health hazard

Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether (166736-08-9): Immediate (acute) health hazard

Subtilisin (9014-01-1): Immediate (acute) health hazard

#### **State Regulations**

##### **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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### 16. Other information

#### Hazardous Materials Information Label (HMIS)

Health: 2  
Flammability: 0  
Physical Hazard: 1  
Personal Protection: A

#### NFPA Hazard Ratings

Health: 1  
Flammability: 0  
Reactivity: 1  
Unique Hazard:



#### Changes

Revision date: 15.02.2016  
Revision No: 1,01

This data sheet contains changes from the previous version in section(s): 9.

Rev. 1.0; Initial release: 20.08.2015

Rev. 1,01; Changes in chapter: 1

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Concerning the International Transport of Dangerous Goods by Rail)  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse  
WHMIS: Canadian Workplace Hazardous Materials Information System

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### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*