

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

### 1.1 Product identifier

**Product name:** BIOFORM PLUS Gel Lavastoviglie

**Product No.:** 0016138364

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** For the cleaning of crockery/cutlery & kitchen utensils in an automatic dishwasher machine.

**Uses advised against:** None known.

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

#### Manufacturer

McBride S.p.A. (Bagnatica)  
Via Kennedy, 28b  
BAGNATICA (BG) 24060

**Telephone:** + 39 (0) 356 666 411

**Fax:** + 39 (0) 356 666 401

**Website:** <http://www.detergentinfo.com>

**E-mail:** [product.legislation@mcbride.eu](mailto:product.legislation@mcbride.eu)

### 1.4 Emergency telephone number: + 39 (0) 266 101 029 Centro antiveleni ospedale Niguarda - Milano

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

### 2.2 Label Elements

#### Precautionary Statements

**General advice:** P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.

#### Supplemental label information

EUH208: Contais SUBTILISIN. May produce an allergic reaction.

#### Chemical composition according to Reg. 648/2004

<5%: POLYCARBOXYLATES, NON-IONIC SURFACTANTS  
Other Components: Enzymes, Perfumes (LIMONENE)

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED	1 - <5%	68213-24-1		No data available.	1	
SUBTILISIN	0.1 - <1%	9014-01-1	232-752-2	01-2119480434-38	1	#

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

### Classification

Chemical name	Classification	Notes
ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED	Aquatic Acute: 1: H400	
SUBTILISIN	STOT SE: 3: H335 Skin Irrit.: 2: H315 Eye Dam.: 1: H318 Resp. Sens.: 1: H334 Acute Tox.: 4: H302 Aquatic Acute: 1: H400 Aquatic Chronic: 2: H411	No data available.

The full text for all H-statements is displayed in section 16.  
CLP: Regulation No. 1272/2008.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Inhalation:** Move to fresh air.
- Skin Contact:** Flush skin thoroughly with water.
- Eye contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.
- Ingestion:** Rinse mouth thoroughly. Do NOT induce vomiting. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** Mildly irritating to skin with prolonged exposure. If mixture comes into contact with eyes may cause mild irritation.

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

<b>Hazards:</b>	No special precautionary health measures should be needed under anticipated conditions of use.
<b>Treatment:</b>	Get medical attention if symptoms occur.

### SECTION 5: Firefighting measures

<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.
<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media:</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2 Special hazards arising from the substance or mixture:</b>	During fire, gases hazardous to health may be formed.
<b>5.3 Advice for firefighters</b>	
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Special protective equipment for fire-fighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Avoid contact with eyes and prolonged or repeated contact with skin.
<b>6.2 Environmental Precautions:</b>	Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
<b>6.3 Methods and material for containment and cleaning up:</b>	Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.
<b>6.4 Reference to other sections:</b>	See Section 8 of the SDS for Personal Protective Equipment.

### SECTION 7: Handling and storage:

<b>7.1 Precautions for safe handling:</b>	Provide adequate ventilation. Avoid contact with eyes. Avoid contact with skin. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Use only as directed.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store away from incompatible materials. Store in original tightly closed container.

**7.3 Specific end use(s):** For the cleaning of crockery/cutlery & kitchen utensils in an automatic dishwasher machine.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters  
Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
SUBTILISIN	TWA	4.000000 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

**8.2 Exposure controls**

**Appropriate Engineering Controls:** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Do not eat, drink or smoke when using the product. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** If risk of splashing, wear safety goggles or face shield.

**Skin protection**

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Other:** No data available.

**Respiratory Protection:** Not relevant, due to the form of the product.

**Hygiene measures:** Avoid contact with eyes. Avoid contact with skin. Wash hands thoroughly after handling.

**Environmental Controls:** No eSDS available.

**SECTION 9: Physical and chemical properties**

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

**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Blue
<b>Odor:</b>	citrus - lemon
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	8.50 (20.00 °C)
<b>Freezing point:</b>	< 0.00 °C
<b>Boiling Point:</b>	> 70.00 °C
<b>Flash Point:</b>	> 93.00 °C
<b>Evaporation Rate:</b>	No data available.

<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	
<b>Flammability Limit - Lower (%):</b>	
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	No data available.
<b>Relative density:</b>	1.2000 (20.00 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>SADT:</b>	No data available.
<b>Viscosity:</b>	2,500.000 mm <sup>2</sup> /s (20.00 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

## 9.2 Other information

**VOC Content:** EC Directive 2010/75/EU: 16.42 g/l ~1.64 % (calculated)

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	None under normal conditions.
<b>10.4 Conditions to avoid:</b>	Avoid heat or contamination. Do not freeze.
<b>10.5 Incompatible Materials:</b>	Strong acids. Strong oxidizing substances. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	By fire, toxic gases may be formed (CO <sub>x</sub> , NO <sub>x</sub> ).

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	None under normal conditions.
<b>Skin Contact:</b>	Mildly irritating to skin with prolonged exposure.
<b>Eye contact:</b>	May cause temporary eye irritation.
<b>Ingestion:</b>	May be ingested by accident. Ingestion may cause irritation and malaise.

### 11.1 Information on toxicological effects

## Acute toxicity

### Oral

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b> ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED SUBTILISIN	No data available.  LD 50 (Rat): 1,800.000000 mg/kg Experimental result, Key study

### Dermal

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b> ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED SUBTILISIN	No data available.  No data available.

### Inhalation

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b> ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED SUBTILISIN	No data available.  No data available.

### Repeated dose toxicity

<b>Product:</b>	No data available.
<b>Specified substance(s)</b> ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED SUBTILISIN	No data available.  No data available.

### Skin Corrosion/Irritation:

<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Specified substance(s)</b> ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED SUBTILISIN	No data available.  No data available.

### Serious Eye Damage/Eye Irritation:

<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Specified substance(s)</b> ALCOHOLS, C12-16, ETHOXYLATED PROPOXYLATED SUBTILISIN	No data available.  No data available.

### Respiratory or Skin Sensitization:

<b>Product:</b>	Based on available data, the classification criteria are not met.
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**Specified substance(s)**

ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Germ Cell Mutagenicity**

**In vitro**

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

**Specified substance(s)**

ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**In vivo**

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

**Specified substance(s)**

ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Specific Target Organ Toxicity - Single Exposure**

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

**Specified substance(s)**

ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

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

**Specified substance(s)**  
ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Aspiration Hazard**  
**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**  
**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN No data available.

**Aquatic Invertebrates**  
**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN EC 50 (Daphnia magna, 48.0 h): 170.000000 µg/l (semi-static) Experimental result, Key study

**Chronic Toxicity**

**Fish**  
**Product:** No data available.

**Specified substance(s)**  
ALCOHOLS, C12-16, No data available.  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN NOEC (Fathead Minnow, 32.0 d): 0.0420000 mg/l (flow-through) Experimental result, Key study

**Aquatic Invertebrates**  
**Product:** No data available.



**Specified substance(s)**  
ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

No data available.

**Toxicity to Aquatic Plants**  
**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

No data available.

## 12.2 Persistence and Degradability

**Biodegradation**  
**Product:** The surfactant(s) contained in this mixture comply with biodegradability criteria as laid down in regulations (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member state. The other components of this mixture are either environmentally inert or absorbed onto sewage and sediment etc or will biodegrade to substances which are likely to be of low environmental impact when the mixture is used as directed.

**Specified substance(s)**  
ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

100.000000 % Detected in water. Experimental result, Key study

**BOD/COD Ratio**  
**Product** No data available.

**Specified substance(s)**  
ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

No data available.

**12.3 Bioaccumulative potential**  
**Product:** The product is not bioaccumulating.

**Specified substance(s)**  
ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

No data available.

**12.4 Mobility in soil:** No data available.  
**Known or predicted distribution to environmental compartments**

ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

No data available.

**12.5 Results of PBT and vPvB assessment:** Based on available data, the classification criteria are not met.

ALCOHOLS, C12-16,  
ETHOXYLATED  
PROPOXYLATED  
SUBTILISIN

No data available.

No data available.

**12.6 Other adverse effects:** None known.

**12.7 Additional Information:** No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**General information:** Dispose of contents/container in accordance with local requirements for domestic waste disposal.

**Disposal methods:** Wash before disposal. Dispose to controlled facilities.

## SECTION 14: Transport information

### ADR

Not regulated.

### ADN

Not regulated.

### RID

Not regulated.

### IMDG

Not regulated.

### IATA

Not regulated.

**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:

#### EU Regulations

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**Regulation (EC) No. 689/2008 Import and export of dangerous chemicals:** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**  
none

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**  
none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:** none

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:**  
none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**  
none

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

#### International regulations

Montreal protocol

Stockholm convention

Rotterdam convention

Kyoto protocol

#### SECTION 16: Other information

**Revision Information:** Not relevant.

#### References

PBT PBT: persistent, bioaccumulative and toxic substance.  
vPvB vPvB: very persistent and very bioaccumulative substance.

**Key literature references and sources for data:** No data available.

#### Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.

**Training information:** No data available.

**DetNet Classification** Not relevant.

**Logging Number:**

**Issue Date:** 27.05.2020

**SDS No.:**  
**Disclaimer:**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.