

**BIOCHIMICA S.p.A.**

Revision nr. 1

Dated 04/03/2019

First compilation

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Page n. 1/16

**1SFBIUT098101 - BIOFORM PLUS  
Smacchiatore Igienizzante**

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

**1.1. Product identifier**

Code: 1SFBIUT098101  
Product name: BIOFORM PLUS Smacchiatore Igienizzante  
Chemical name and synonym: 3SPXXBX006401

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

| Identified Uses | Industrial | Professional | Consumer |
|-----------------|------------|--------------|----------|
| detergent       | -          | ✓            | ✓        |

**1.3. Details of the supplier of the safety data sheet**

Name: BIOCHIMICA S.p.A.  
Full address: Via Roma, 49  
District and Country: 40069 Zola Predosa (BO)  
Italia  
Tel. +39 051 755269  
Fax +39 051 752707

e-mail address of the competent person  
responsible for the Safety Data Sheet

info@biochimicaspa.it

**1.4. Emergency telephone number**

For urgent inquiries refer to

CAVp Osp. Pediatrico Bambino Gesù, Piazza Sant'Onofrio, 4 00165 Roma Tel.: 0668593726  
Az. Osp. Univ. Foggia, V.le Luigi Pinto, 1 71122 Foggia Tel.: 0881732326  
Az. Osp. A. Cardarelli, Via A. Cardarelli, 9 80131 Napoli Tel.: 0817472870  
CAV Policlinico Umberto I, V.le del Policlinico, 155 00161 Roma Tel.: 0649978000  
CAV Policlinico A. Gemelli, Largo Agostino Gemelli, 8 00168 Roma Tel.: 063054343  
Az. Osp. Careggi U.O. Tossicologia Medica, Largo Brambilla, 3 50134 Firenze Tel.: 0557947819  
CAV Centro Nazionale di Inf. Tossicologica, Via Salvatore Maugeri, 10 27100 Pavia Tel.: 038224444  
Osp. Niguarda Ca' Granda Piazza Ospedale Maggiore, 3 20162 Milano Tel.: 0266101029  
Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS, 1 24127 Bergamo Tel.: 800883300

### SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

**1SFBIUT098101 - BIOFORM PLUS  
Smacchiatore Igienizzante**

The product does not maintain combustion: see section 16 for the test report.

Hazard classification and indication:

Serious eye damage, category 1

H318

Causes serious eye damage.

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

**H318**

Causes serious eye damage.

Precautionary statements:

**P101**

If medical advice is needed, have product container or label at hand.

**P102**

Keep out of reach of children.

**P280**

Wear protective gloves / clothing and face protection.

**P305+P351+P338**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P310**

Immediately call a POISON CENTER

**Contains:**

DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Ingredients according to Regulation (EC) No. 648/2004

Less than 5%

phosphonates, anionic surfactants, non-ionic surfactants, polycarboxylates

15% or over but less than 30%

oxygen-based bleaching agents

enzymes, optical brighteners

perfumes

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**1SFBIUT098101 - BIOFORM PLUS**  
**Smacchiatore Igienizzante****SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

| Identification   | x = Conc. %      | Classification 1272/2008 (CLP)                              |
|--|------------------|---|
| <b>DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)</b>  |                  |   |
| CAS 15630-89-4   | $25 \leq x < 30$ | Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Dam. 1 H318         |
| EC 239-707-6   |                  |   |
| INDEX -  |                  |   |
| Reg. no. 01-2119457268-30  |                  |   |
| <b>SODIUM CARBONATE</b>  |                  |   |
| CAS 497-19-8   | $15 \leq x < 25$ | Eye Irrit. 2 H319   |
| EC 207-838-8   |                  |   |
| INDEX 011-005-00-2   |                  |   |
| Reg. no. 01-2119485498-19  |                  |   |
| <b>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</b> |                  |   |
| CAS -  | $2 \leq x < 3$   | Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 |
| EC 932-051-8   |                  |   |
| INDEX -  |                  |   |
| Reg. no. 01-2119565112-48-0000   |                  |   |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.


INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

|  |   |  |
|--|---|--|
|  | BIOCHIMICA S.p.A.   | Revision nr. 1   |
|  | 1SFBIUT098101 - BIOFORM PLUS<br>Smacchiatore Igienizzante | Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br>Page n. 4/16 |

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

**1SFBIUT098101 - BIOFORM PLUS  
Smacchiatore Igienizzante**

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)

Predicted no-effect concentration - PNEC

|  |       |      |
|--|-------|------|
| Normal value in fresh water                  | 0,035 | mg/l |
| Normal value in marine water                 | 0,035 | mg/l |
| Normal value for water, intermittent release | 0,035 | mg/l |
| Normal value of STP microorganisms           | 16,24 | mg/l |

#### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               |                  | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Inhalation        |                      |                |               |                  |                    |                | 5 mg/m3       |                  |
| Skin              | 6,4 mg/cm2           |                | 6,4 mg/cm2    |                  | 12,8 mg/cm2        |                | 12,8 mg/cm2   |                  |

#### SODIUM CARBONATE


#### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               |                  | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Inhalation        |                      |                | 10 mg/m3      |                  |                    |                | 10 mg/m3      |                  |

#### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Predicted no-effect concentration - PNEC

|  |        |       |
|--|--------|-------|
| Normal value in fresh water            | 0,268  | mg/l  |
| Normal value in marine water           | 0,0268 | mg/l  |
| Normal value for fresh water sediment  | 8,1    | mg/kg |
| Normal value for marine water sediment | 8,1    | mg/kg |

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|--|---|--|
|  | BIOCHIMICA S.p.A.   | Revision nr. 1   |
|  | 1SFBIUT098101 - BIOFORM PLUS<br>Smacchiatore Igienizzante | Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br>Page n. 6/16 |

|  |                      |                |               |                  |                    |                |               |                  |
|--|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| Normal value of STP microorganisms             |                      |                |               | 5,6              | mg/l               |                |               |                  |
| Normal value for the terrestrial compartment   |                      |                |               | 35               | mg/kg              |                |               |                  |
| Health - Derived no-effect level - DNEL / DMEL |                      |                |               |                  |                    |                |               |                  |
|  | Effects on consumers |                |               |                  | Effects on workers |                |               |                  |
| Route of exposure                              | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Oral   |                      |                |               | 0,425 mg/kg/d    |                    |                |               |                  |
| Inhalation                                     |                      |                |               | 1,5 mg/m3        |                    |                |               | 6 mg/m3          |
| Skin   |                      |                |               | 42.5 ma/ka/d     |                    |                |               | 85 ma/ka/d       |

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

## HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

## SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

## RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

## ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# SECTION 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|            |        |
|------------|--------|
| Appearance | powder |
| Colour     | white  |

**1SFBIUT098101 - BIOFORM PLUS  
Smacchiatore Igienizzante**

|  |   |
|--|---|
| Odour                                  | Not available   |
| Odour threshold                        | Not available   |
| pH                                     | Not available   |
| Melting point / freezing point         | Not available   |
| Initial boiling point                  | Not applicable  |
| Boiling range                          | Not available   |
| Flash point                            | Combustion not sustained.   |
| Evaporation rate                       | Not available   |
| Flammability (solid, gas)              | Not available   |
| Lower inflammability limit             | Not available   |
| Upper inflammability limit             | Not available   |
| Lower explosive limit                  | Not available   |
| Upper explosive limit                  | Not available   |
| Vapour pressure                        | Not available   |
| Vapour density                         | Not available   |
| Relative density                       | Not available   |
| Solubility                             | soluble in water  |
| Partition coefficient: n-octanol/water | Not available   |
| Auto-ignition temperature              | Not available   |
| Decomposition temperature              | Not available   |
| Viscosity                              | Not available   |
| Explosive properties                   | not classified as explosive, it does not contain explosive substances according to CLP Art (14 (2)) |
| Oxidising properties                   | the product is not an oxidizing substance   |

**9.2. Other information**

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.


**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

The powders are potentially explosive when mixed with air.

**10.4. Conditions to avoid**

|  |   |  |
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|  | BIOCHIMICA S.p.A.   | Revision nr. 1   |
|  | 1SFBIUT098101 - BIOFORM PLUS<br>Smacchiatore Igienizzante | Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br>Page n. 8/16 |

Avoid environmental dust build-up.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

##### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

##### Information on likely routes of exposure

Information not available

##### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

##### Interactive effects

Information not available


##### ACUTE TOXICITY

LC50 (Inhalation) of the mixture:  
Not classified (no significant component)  
LD50 (Oral) of the mixture:  
>2000 mg/kg  
LD50 (Dermal) of the mixture:  
Not classified (no significant component)

N, N'-ETHYLENEBIS [N-ACETYLACETAMIDE]

LD50 (Oral) > 2000 mg/kg rat



|  |   |  |
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|  | BIOCHIMICA S.p.A.   | Revision nr. 1   |
|  | <b>1SFBIUT098101 - BIOFORM PLUS</b><br><b>Smacchiatore Igienizzante</b> | Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br>Page n. 9/16 |

LD50 (Dermal) > 2000 mg/kg rat

LC50 (Inhalation) > 2,08 mg/l/air 4h rat

DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)

LD50 (Oral) 893 mg/kg rat

LD50 (Dermal) > 2000 mg/kg rabbit

SODIUM CARBONATE

LD50 (Oral) 2800 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg rabbit

LC50 (Inhalation) 800 mg/l/2h guinea pig

SODIUM SULFATE ANHYDROUS

LD50 (Oral) > 2000 mg/kg rat

LC50 (Inhalation) > 2,4 mg/l/4h rat

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

LD50 (Oral) 2000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rat

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

**1SFBIUT098101 - BIOFORM PLUS  
Smacchiatore Igienizzante****CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

**SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

**12.1. Toxicity****N, N'-ETHYLENEBIS [N-  
ACETYLACETAMIDE]**

|                                   |                 |
|-----------------------------------|-----------------|
| LC50 - for Fish                   | > 140 mg/l/96h  |
| EC50 - for Crustacea              | > 1000 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | > 1000 mg/l/72h |
| Chronic NOEC for Fish             | > 140 mg/l      |
| Chronic NOEC for Crustacea        | 500 mg/l 21 d   |

**DISODIUM CARBONATE, COMPOUND  
WITH HYDROGEN PEROXIDE (2: 3)**

|                            |                   |
|----------------------------|-------------------|
| LC50 - for Fish            | 70,7 mg/l/48h 48h |
| EC50 - for Crustacea       | 4,9 mg/l/48h      |
| Chronic NOEC for Crustacea | 2 mg/l            |

**SODIUM CARBONATE**

|                      |              |
|----------------------|--------------|
| LC50 - for Fish      | 300 mg/l/96h |
| EC50 - for Crustacea | 200 mg/l/48h |

**1SFBIUT098101 - BIOFORM PLUS**  
**Smacchiatore Igienizzante**

EC50 - for Algae / Aquatic Plants 10 mg/l  
Chronic NOEC for Fish 560 mg/l 96h  
Chronic NOEC for Algae / Aquatic Plants 1 mg/l

**SODIUM SULFATE ANHYDROUS**

LC50 - for Fish 7960 mg/l/96h Pimephales promelas  
EC50 - for Crustacea 1766 mg/l/48h Daphnia magna

Reaction product of Benzenesulfonic acid, 4-  
C10-13-sec-alkyl derivs. and Benzenesulfonic  
acid, 4-methyl- and sodium hydroxide  
LC50 - for Fish

> 1 mg/l/96h Carpa  
> 1 mg/l/48h Daphnia magna  
> 10 mg/l/72h Desmodesmus subspicatus  
> 0,1 mg/l Trota iridea  
> 1 mg/l Daphnia magna

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Fish

Chronic NOEC for Crustacea

**12.2. Persistence and degradability**

N, N'-ETHYLENEBIS [N-  
ACETYLACETAMIDE]  
Rapidly degradable

DISODIUM CARBONATE, COMPOUND  
WITH HYDROGEN PEROXIDE (2: 3)  
Degradability: information not available

**SODIUM CARBONATE**

Solubility in water 1000 - 10000 mg/l  
Degradability: information not available

**SODIUM SULFATE ANHYDROUS**


Solubility in water > 10000 mg/l  
Degradability: information not available

**12.3. Bioaccumulative potential****SODIUM SULFATE ANHYDROUS**

Partition coefficient: n-octanol/water -4,38  
BCF 0,5

**12.4. Mobility in soil**

Information not available

|  |   |   |
|--|---|---|
|  | BIOCHIMICA S.p.A.   | Revision nr. 1  |
|  | 1SFBIUT098101 - BIOFORM PLUS<br>Smacchiatore Igienizzante | Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br>Page n. 12/16 |

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

##### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

**1SFBIUT098101 - BIOFORM PLUS  
Smacchiatore Igienizzante**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None


Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

|  |   |   |
|--|---|---|
|  | BIOCHIMICA S.p.A.   | Revision nr. 1  |
|  | 1SFBIUT098101 - BIOFORM PLUS<br>Smacchiatore Igienizzante | Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br>Page n. 14/16 |

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.


## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |  |
|--------------------------|--|
| <b>Ox. Sol. 3</b>        | Oxidising solid, category 3  |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H272</b>              | May intensify fire; oxidiser.                                      |
| <b>H302</b>              | Harmful if swallowed.  |
| <b>H318</b>              | Causes serious eye damage.   |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESI (European archive of existing substances)
- CLP: EC Regulation 1272/2008

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|  | <b>BIOCHIMICA S.p.A.</b>  | Revision nr. 1<br><br>Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br><br>Page n. 15/16 |
|  | <b>1SFBIUT098101 - BIOFORM PLUS</b><br><b>Smacchiatore Igienizzante</b> |   |

- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.


The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

The product does not maintain combustion as per Test Report N ° 19LA01113 (method reported in point 34.4.1 Test 0.1: Test for oxidizing solids of the

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|  | <b>BIOCHIMICA S.p.A.</b>  | Revision nr. 1<br><br>Dated 04/03/2019<br>First compilation<br>Printed on 10/03/2020<br><br>Page n. 16/16 |
|  | <b>1SFBIUT098101 - BIOFORM PLUS</b><br><b>Smacchiatore Igienizzante</b> |   |

Manual of Tests and Criteria - United Nations, Fifth revised edition, 2009.)

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 09.