

**004\_084-BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS**

## Safety Data Sheet

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

**1.1. Product identifier**

Code: 004\_084  
 Company Code: 3SLXXBX025300  
 Product name: BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS

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

Identified Uses	Industrial	Professional	Consumer
laundry detergent	-	✓	✓

**Uses Advised Against**

Do not use for uses other than those indicated

**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)  
 tel. +39 051 755269  
 fax +39 051 752707  
 ITALIA

e-mail address of the competent person

responsible for the Safety Data Sheet: sds@chimicahts.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.

**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

## 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.

**EUH208**Contains: METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE  
May produce an allergic reaction.

## Precautionary statements:

**P102**

Keep out of reach of children.

**P305+P351+P338**

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

**P280**

Wear eye protection / face protection.

**P310**

Immediately call a POISON CENTER.

**P101**

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

**Contains:**

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

ALCOHOLS, C12-13- BRANCHED AND LINEAR, ETHOXYLATED (CAS: 160901-19-9)

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

Less than 5%	phosphonates, non-ionic surfactants, soap
5% or over but less than 15%	anionic surfactants

enzymes, optical brighteners

perfumes, Coumarin, Linalool

Preservation agents: 2-Bromo-2-Nitropropane-1,3-Diol, Methylchloroisothiazolinone, Methylisothiazolinone, O-phenylphenol

**2.3. Other hazards**

**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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

**SECTION 3. Composition/information on ingredients****3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS</b> CAS 68891-38-3 EC 500-234-8 INDEX - Reg. no. 01-2119488639-16	$5 \leq x < 6$	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
<b>ALCOHOLS, C12-13- BRANCHED AND LINEAR, ETHOXYLATED (CAS: 160901-19-9)</b> CAS 160901-19-9 EC 931-954-4 INDEX -	$3,5 \leq x < 4$	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412
<b>BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS</b> CAS 68411-30-3 EC 270-115-0 INDEX - Reg. no. 01-2119489428-22	$2,5 \leq x < 3$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
<b>BIPHENYL-2-OL</b> CAS 90-43-7 EC 201-993-5 INDEX 604-020-00-6 Reg. no. 01-2119511183-53	$1 \leq x < 1,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=1
<b>2-BROMO-2-NITROPROPAN-1,3-DIOL</b> CAS 52-51-7 EC 200-143-0 INDEX 603-085-00-8 Reg. no. 01-2119980938-15	$0 \leq x < 0,05$	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10

**METHYLCHLOROISOTHIAZOLINO**

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

**NE AND METHYLISOTHIAZOLINONE**

CAS 55965-84-9

 $0 \leq x < 0,0015$ 

Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 911-418-6

INDEX 613-167-00-5

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**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

**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.

**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).

**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

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 into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. 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.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. 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 well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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****ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS**

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,24	mg/l
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Normal value in marine water	0,024	mg/l
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**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS**

**Safety Data Sheet** According to Annex II to REACH - Regulation 2015/830

Normal value for fresh water sediment	0,917	mg/kg
Normal value for marine water sediment	0,092	mg/kg
Normal value for water, intermittent release	0,071	mg/l
Normal value of STP microorganisms	10	g/l
Normal value for the terrestrial compartment	7,5	mg/kg

**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
Oral				15 mg/kg bw/d				
Inhalation				52 mg/m3				175 mg/m3
Skin				1650 mg/kg bw/d				2750 mg/kg bw/d

**BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS**

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,268	mg/l
Normal value in marine water	0,027	mg/l
Normal value for fresh water sediment	8,1	mg/kg
Normal value for marine water sediment	6,8	mg/kg
Normal value for water, intermittent release	0,017	mg/l
Normal value of STP microorganisms	3,43	mg/l
Normal value for the terrestrial compartment	35	mg/kg

**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
Oral				0,425 mg/kg bw/d				
Inhalation			1,5	1,5 mg/m3			6	6 mg/m3
Skin				42,5 mg/kg bw/d				85 mg/kg bw/d

**BIPHENYL-2-OL**

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,001	mg/l
Normal value for fresh water sediment	0,128	mg/kg
Normal value for marine water sediment	0,013	mg/kg
Normal value of STP microorganisms	0,56	mg/l
Normal value for the food chain (secondary poisoning)	1,87	mg/kg
Normal value for the terrestrial compartment	2,5	mg/kg

**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
Oral				0,4 mg/kg bw/d				
Inhalation				1,2 mg/m3				19,25 mg/m3

**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

Skin	0,4 mg/kg bw/d	21,84 mg/kg bw/d
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**2-BROMO-2-NITROPROPAN-1,3-DIOL**

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,01	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,041	mg/kg
Normal value for marine water sediment	0,003	mg/kg
Normal value for water, intermittent release	0,003	mg/l
Normal value of STP microorganisms	0,43	mg/l
Normal value for the terrestrial compartment	0,5	mg/kg

**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
Oral		1,1 mg/kg bw/d		0,35 mg/kg bw/d				
Inhalation	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	1,2 mg/m3	4,2 mg/m3	12,3 mg/m3	4,2 mg/m3	4,1 mg/m3
Skin	0,008 mg/cm2	4,2 mg/kg bw/d	0,008 mg/cm2	1,4 mg/kg bw/d	0,013 mg/cm2	7 mg/kg bw/d	0,013 mg/cm2	2,3 mg/kg bw/d

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

**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**

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**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**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

## 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	transparent liquid
Colour	blue
Odour	typical
Odour threshold	Not available
pH	8,5-9,0
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
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	250-300 g/ml
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, contains no 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**



**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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

2-BROMO-2-NITROPROPAN-1,3-DIOL

Decomposes on contact with: water,metals,strong bases.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

2-BROMO-2-NITROPROPAN-1,3-DIOL

Avoid exposure to: light,UV rays,moisture.

**10.5. Incompatible materials**

Information not available

**10.6. Hazardous decomposition products**

2-BROMO-2-NITROPROPAN-1,3-DIOL

May develop: nitric oxide,carbon oxides,hydrobromic acid.

**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

**004\_084- BIOFORM PLUS detersivo lavatrice DEO igienizzante SPORT  
& FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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:

&gt;2000 mg/kg

LD50 (Dermal) of the mixture:

Not classified (no significant component)

**BIPHENYL-2-OL**

LD50 (Oral) 2733 mg/kg

LD50 (Dermal) 2000 mg/kg

LC50 (Inhalation) 36 mg/l/4h

**2-BROMO-2-NITROPROPAN-1,3-DIOL**

LD50 (Oral) 254 mg/kg rat

LD50 (Dermal) 64 mg/kg rat

LC50 (Inhalation) 0,588 mg/l/4h rat

**METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE**

LD50 (Oral) &gt; 2000 mg/kg rat

LD50 (Dermal) &gt; 5000 mg/kg rat

LC50 (Inhalation) 0,31 mg/l/4h rat

**BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS**

LD50 (Oral) 1080 mg/kg rat

LD50 (Dermal) &gt; 2000 mg/kg rat

**ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS**

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT  
& FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

LD50 (Oral) &gt; 2000 mg/kg rat

LD50 (Dermal) &gt; 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**

May produce an allergic reaction. Contains: METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**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**

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

**BIPHENYL-2-OL**

LC50 - for Fish	4,5 mg/l/96h
EC50 - for Crustacea	2,7 mg/l/48h
EC50 - for Algae / Aquatic Plants	3,57 mg/l/72h
Chronic NOEC for Fish	0,036 mg/l
Chronic NOEC for Crustacea	0,009 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,468 mg/l

**2-BROMO-2-NITROPROPAN-1,3-DIOL**

LC50 - for Fish	20 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea	1,6 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,25 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,08 mg/l

**METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE**

LC50 - for Fish	0,58 mg/l/96h <i>Danio rerio</i>
EC50 - for Crustacea	1,02 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,379 mg/l/72h IC50, <i>Pseudokirchneriella subcapitata</i>
Chronic NOEC for Fish	0,007 mg/l <i>Salvelinus fontinalis</i> , 30d
Chronic NOEC for Crustacea	0,013 mg/l <i>Dafnia</i>

**BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS**

LC50 - for Fish	1,67 mg/l/96h
EC50 - for Crustacea	2,9 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,91 mg/l/72h
Chronic NOEC for Fish	0,23 mg/l 72d
Chronic NOEC for Crustacea	0,5 mg/l 7d
Chronic NOEC for Algae / Aquatic Plants	0,5 mg/l 96h

**ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS**

LC50 - for Fish	> 1 mg/l/96h <i>Danio rerio</i>
EC50 - for Crustacea	7,2 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	27 mg/l/72h <i>Desmodesmus subspicatus</i>
Chronic NOEC for Fish	0,14 mg/l 28d <i>Oncorhynchus mykiss</i>
Chronic NOEC for Crustacea	0,18 mg/l 21d <i>Daphnia magna</i>
Chronic NOEC for Algae / Aquatic Plants	0,93 mg/l <i>Desmodesmus subspicatus</i>

**12.2. Persistence and degradability****BIPHENYL-2-OL**

Rapidly degradable

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

## 2-BROMO-2-NITROPROPAN-1,3-DIOL

Solubility in water 286000 mg/l

Rapidly degradable

METHYLCHLOROISOTHIAZOLINONE AND  
METHYLISOTHIAZOLINONE  
NOT rapidly degradableBENZENESULFONIC ACID, C10-13-ALKYL  
DERIVS., SODIUM SALTS  
Rapidly degradableALCOHOLS, C12-14, ETHOXYLATED,  
SULFATES, SODIUM SALTS  
Rapidly degradable**12.3. Bioaccumulative potential**

## BIPHENYL-2-OL

BCF 21,4

## 2-BROMO-2-NITROPROPAN-1,3-DIOL

Partition coefficient: n-octanol/water 0,22

BCF 3,16

BENZENESULFONIC ACID, C10-13-ALKYL  
DERIVS., SODIUM SALTS  
BCF 159**12.4. Mobility in soil**ALCOHOLS, C12-14, ETHOXYLATED,  
SULFATES, SODIUM SALTS

Partition coefficient: soil/water 0,34

**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**

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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**

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**

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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 1907/2006Product

Point 3 - 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:

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)

**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT & FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<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>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<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 ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- 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%



**004\_084- BIOFORM PLUS detergente lavatrice DEO igienizzante SPORT  
& FITNESS****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

- 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).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - 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.