

BIOFORZE BLOCK
Code: 67/404

Version: 2 Revision: 21/01/2015

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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	PRODUCT IDENTIFIER: BIOFORZE BLOCK Code: 67/404
1.2	RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Professional <input type="checkbox"/> Consumers Product for maintenance and cleaning destined to other industrial applications and other professional uses. <u>Uses advised against:</u> # None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> # Not restricted.
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: <u>CONTACT DETAILS:</u> Bactemia S.p.A. - Via S. Felice 10 - 40019 FERRARA (FE) - Italy Phone: +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) <u>E-mail address of the person responsible for the safety data sheet:</u> safety@bactemia.com
1.4	EMERGENCY TELEPHONE NUMBER: +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1	CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: This product is not classified as dangerous. in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP) and in accordance with Directive 1999/45/EC~2006/8/EC
2.2	LABEL ELEMENTS: This product does not require pictograms, in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP) <u>Hazard statements:</u> None. <u>Precautionary statements:</u> P271 Use only outdoors or in a well-ventilated area. P280b Wear protective gloves. <u>Supplementary statements:</u> EUD011 Do not swallow. <u>Hazardous ingredients:</u> None.

2.3	OTHER HAZARDS: Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <u>Other physicochemical hazards:</u> # No other relevant adverse effects are known. <u>Other adverse human health effects:</u> # Prolonged exposure to vapours may produce transient drowsiness. In case of prolonged contact, the skin may become dry. <u>Other negative environmental effects:</u> # Does not contain substances that fulfil the PBT/vPvB criteria.
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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1	<p>SUBSTANCES: Not applicable (mixture).</p>
3.2	<p>MIXTURES: # <i>This product is a mixture.</i> Chemical description: Contains non pathogenic microorganisms.</p> <p>HAZARDOUS INGREDIENTS: Substances taking part in a percentage higher than the exemption limit:</p> <p># <i>Does not contain other components or impurities which will influence the classification of the product.</i></p> <p>Stabilizers: None</p> <p>Reference to other sections: For more information, see sections 8, 11 and 12.</p> <p>SUBSTANCES OF VERY HIGH CONCERN (SVHC): # <i>List updated by ECHA on 19/08/2014.</i> Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006: None Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006: None</p> <p>PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES: Does not contain substances that fulfill the PBT/VPvB criteria.</p>

SECTION 4 : FIRST AID MEASURES

4.1 4.2	<p>DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:</p>	
	 # <i>Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.</i>	
	Route of exposure	Symptoms and effects, acute and delayed
	Inhalation:	# <i>Normally does not produce symptoms.</i>
	Skin:	# <i>Normally does not produce symptoms.</i>
	Eyes:	# <i>Normally does not produce symptoms.</i>
	Ingestion:	# <i>If swallowed in high doses, may cause gastrointestinal disturbances.</i>
		Description of first-aid measures
		This product is not volatile. As the product is solid, hazard is rather low. Should there be any symptoms, transfer the person affected to the open air.
		# <i>Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.</i>
		# <i>Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.</i>
		If swallowed, seek immediate medical attention. Do not induce vomiting. Keep the patient at rest.

4.3 **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**
Notes to physician: Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent).
Antidotes and contraindications: # *Specific antidote not know.*

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SECTION 5 : FIRE-FIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA:
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist.
- 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides. Exposure to combustion or decomposition products may be a hazard to health.
- 5.3 ADVICE FOR FIREFIGHTERS:
Special protective equipment: # Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product.
- 6.2 ENVIRONMENTAL PRECAUTIONS:
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
- 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
Sweep spilt product. Keep the remains in a closed container.
- 6.4 REFERENCE TO OTHER SECTIONS:
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.
- Flash point : 98. °C
- Autoignition temperature : 420. °C
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Prevent unauthorized access. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.
Class of store : According to current legislation.
Maximum storage period : 24. months
Temperature interval : min: 4. °C, max: 40. °C (recommended).
Incompatible materials:
Keep away from oxidizing agents.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:
Not applicable.
- 7.3 SPECIFIC END USES:
For the use of this product do not exist particular recommendations apart from that already indicated.

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **CONTROL PARAMETERS:**
If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES :
Not established.

BIOLOGICAL LIMIT VALUES:
Not established

DERIVED NO-EFFECT LEVEL (DNEL):
Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: Not available (withoud data of registration REACH).	<u>DNEL Inhalation</u> mg/m3	<u>DNEL Cutaneous</u> mg/kg bw/d	<u>DNEL Oral</u> mg/kg bw/d
	-	-	-

<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: Not available (withoud data of registration REACH).	<u>DNEL Inhalation</u> mg/m3	<u>DNEL Cutaneous</u> mg/cm2	<u>DNEL Eyes</u> mg/cm2
	-	-	-

Derived no-effect level, general population:
Not applicable (product for industrial use).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermitent release: Not available (withoud data of registration REACH).	<u>PNEC Fresh water</u> mg/l	<u>PNEC Marine</u> mg/l	<u>PNEC Intermittent</u> mg/l
	-	-	-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (withoud data of registration REACH).	<u>PNEC STP</u> mg/l	<u>PNEC Sediments</u> mg/kg dry weight	<u>PNEC Sediments</u> mg/kg dry weight
	-	-	-

<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: Not available (withoud data of registration REACH).	<u>PNEC Air</u> mg/m3	<u>PNEC Soil</u> mg/kg dry weight	<u>PNEC Oral</u> mg/kg bw/d
	-	-	-

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8.2

EXPOSURE CONTROLS:

ENGINEERING MEASURES:



No special measures required.

Protection of respiratory system: Not applicable.

Protection of eyes and face: # *It is recommended to dispose of water taps, sources or eyewash bottles with clean water close to the working area.*

Protection of hands and skin: # *Dispose of water taps or sources with clean water close to the working area.*

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC-96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask: No.

Goggles: Advisable.

Face shield: No.

Gloves: Yes.



Boots: No.

Apron: No.

Clothing: No.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: # *Not applicable.*

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> - Physical state : Solid (massive). - Colour : Pink. - Odour : Odourless. - Odour threshold : # <i>Not applicable (odourless).</i> <p><u>pH-value</u></p> <ul style="list-style-type: none"> - pH : Not applicable <p><u>Change of state</u></p> <ul style="list-style-type: none"> - Melting point : Not available - Initial boiling point : # 187.9 °C at 760 mmHg <p><u>Density</u></p> <ul style="list-style-type: none"> - Relative density : # 1. ± 0.1 at 20/4°C Relative water <p><u>Stability</u></p> <ul style="list-style-type: none"> - Decomposition temperature : # <i>Not available</i> <p><u>Viscosity:</u></p> <ul style="list-style-type: none"> - Viscosity (flow time) : Not applicable (solid). <p><u>Volatility:</u></p> <ul style="list-style-type: none"> - Vapour pressure : # <i>Not available</i> <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> - Solubility in water: : Not available - Solubility in oils and fats: : # <i>Not available</i> <p><u>Flammability:</u></p> <ul style="list-style-type: none"> - Flash point : 98. °C - Autoignition temperature : 420. °C <p><u>Explosive properties:</u></p> <ul style="list-style-type: none"> # <i>Not available.</i> <p><u>Oxidizing properties:</u></p> <ul style="list-style-type: none"> # <i>Not classified as oxidizing product.</i>
9.2	<p>OTHER INFORMATION:</p> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>

SECTION 10 : STABILITY AND REACTIVITY

10.1	<p>REACTIVITY:</p> <p><u>Corrosivity to metals:</u> # <i>It is not corrosive to metals.</i></p> <p><u>Pyrophorical properties:</u> # <i>It is not pyrophoric.</i></p>
10.2	<p>CHEMICAL STABILITY:</p> <p>Stable under recommended storage and handling conditions.</p>
10.3	<p>POSSIBILITY OF HAZARDOUS REACTIONS:</p> <p>Possible dangerous reaction with oxidizing agents.</p>
10.4	<p>CONDITIONS TO AVOID:</p> <p><u>Heat:</u> Keep away from sources of heat.</p> <p><u>Light:</u> If possible, avoid direct contact with sunlight.</p> <p><u>Air:</u> Not applicable.</p> <p><u>Humidity:</u> Avoid extreme humidity conditions.</p> <p><u>Pressure:</u> Not applicable.</p> <p><u>Shock:</u> Not applicable.</p>
10.5	<p>INCOMPATIBLE MATERIALS:</p> <p>Keep away from oxidizing agents.</p>
10.6	<p>HAZARDOUS DECOMPOSITION PRODUCTS:</p> <p>As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.</p>

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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~605/2014 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations

for individual ingredients :

Not available

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE : Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed
<u>Inhalation:</u> Not classified	ETA > 20000 mg/m3	-	# Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).
<u>Skin:</u> Not classified	ETA > 2000 mg/kg	-	# Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
<u>Eyes:</u> Not classified	Not available	-	# Not classified as a product with acute toxicity by eye contact (lack of data).
<u>Ingestion:</u> Not classified	ETA > 5000 mg/kg	-	# Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	# Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
<u>Skin corrosion/irritation:</u> Not classified	-	-	# Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).
<u>Serious eye damage/irritation:</u> Not classified	-	-	# Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).
<u>Respiratory sensitisation:</u> Not classified	-	-	# Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitisation:</u> Not classified	-	-	# Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Aspiration hazard:</u> Not classified	-	-	# Not applicable (solid).

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:

Carcinogenic effects: # Is not considered as a carcinogenic product.

Genotoxicity: # Is not considered as a mutagenic product.

Toxicity for reproduction: # Do not harm fertility. Do not harm the fetus developing.

Effects via lactation: # Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: # Not available.

Short-term exposure: # May irritate the eyes and skin.

Long-term or repeated exposure: # Not available.

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INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINE TICS , METABOLISMA ND DISTRIBUTION:

Dermal absorption: # Not available.

Basic toxicokinetics: # Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~605/2014 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment
for individual ingredients :

Not available

No observed effect concentration

Not available

Lowest observed effect concentration

Not available

12.2 PERSISTENCE AND DEGRADABILITY:

Biodegradability: # *The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: Ultimate aerobic biodegradation > 60% within 28 days. 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.*

Aerobic biodegradation

for individual ingredients :

Hydrolysis: # Not available.

Photodegradability: # Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

Bioaccumulation

for individual ingredients :

12.4 MOBILITY IN SOIL:

Not available.

12.5 RESULTS OF PBT AND VPVBASESSEMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfill the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential: Not available.

Photochemical ozone creation potential: Not available.

Earth global warming potential: In case of fire or incineration liberates CO2.

Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification,)in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.

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SECTION 14 : TRANSPORT INFORMATION

14.1	<u>UN NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable
14.3 14.4	<u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u> <u>Transport by road (ADR 2013) and Transport by rail (RID 2013):</u> Not reglamented <u>Transport by sea (IMDG 36-12):</u> Not reglamented <u>Transport by air (ICAO/IATA 2013):</u> Not reglamented <u>Transport by inland waterways (ADN):</u> Free.
14.5	<u>ENVIRONMENTAL HAZARDS:</u> # <i>Not applicable (not classified as hazardous for the environment).</i>
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> # <i>Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are in a vertical position and sure. Ensure adequate ventilation.</i>
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this material safety data sheet. <u>Restrictions on manufacture, placing on market and use:</u> See section 1.2 <u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2 <u>Tactile warning of danger:</u> Not applicable (the classification criteria are not met). <u>Child safety protection:</u> Not applicable (the classification criteria are not met). <u>Legislación específica sobre detergentes:</u> It is applicable the Regulation (EC) No. 648/2004~907/2006 on detergents. Contains non-ionic surfactants > 30 %. Do not swallow. <u>OTHER REGULATIONS:</u> Not available
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15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> # <i>Not applicable (mixture).</i>
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SECTION 16 : OTHER INFORMATION

16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Not applicable.

ADVISES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- # · European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- # · Access to European Union Law, <http://eur-lex.europa.eu/>
- # · Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- # · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- # · DSD: Dangerous Substances Directive.
- # · DPD: Dangerous Preparations Directive.
- # · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- # · CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- # · EINECS: European Inventory of Existing Commercial Chemical Substances.
- # · ELINCS: European List of Notified Chemical Substances.
- # · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- # · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).
- # · SVHC: Substances of Very High Concern.
- # · PBT: Persistent, bioaccumulable and toxic substances.
- # · vPvB: Very persistent and very bioaccumulable substances.
- # · VOC: Volatile Organic Compounds.
- # · DNEL: Derived No-Effect Level (REACH).
- # · PNEC: Predicted No-Effect Concentration (REACH).
- # · LD50: Letaal dose, 50 percent.
- # · LC50: Letaal concentration, 50 percent.
- # · UN: United Nations Organisation.
- # · ADR: European agreement concerning the international carriage of dangerous goods by road.
- # · RID: Regulations concerning the international transport of dangerous goods by rail.
- # · IMDG: International Maritime code for Dangerous Goods.
- # · IATA: International Air Transport Association.
- # · ICAO: International Civil Aviation Organization.

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.

HISTORY:

Revision:

Version: 1 24/01/2012
Version: 2 21/01/2015

Modifications with respect to the previous Material Safety Data Sheet:

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.