



Marks & Spencer Homecare Product Ingredients and Safety Data Sheet

Product: Bio 2 in 1 Laundry Capsules

Version: 1

Date: 18/07/2018

1. Identification of Substance/Mixture and of the company undertaking

1.1 Product Name: Bio 2 in 1 Laundry Capsules

UPC: 187718

Series Number:

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

Identified Use(s): Detergent for cleaning clothes

Uses Advised Against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet –

Manufacturer

Company Identification: Solent International Ltd
Address of Manufacturer: 16 Queens Avenue
Postal Code: BH23 1BZ
Telephone: 01202 490500
Fax: N/A
E-mail: support@solentgroup.co.uk
Office hours: 09:00 – 17:30 (Mon – Fri)

Supplier

Company Identification: Marks and Spencer PLC
Address of Supplier: Waterside House
35 Wharf Road
London
Postal Code: W2 1NW
Telephone: 00 44 (0)1342 870900



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1.3. Emergency telephone number

01342 870900

NPIS Ireland only 01 8092 166

+00 448 706 006 266 NHS Direct – 0845 4647 or 111

2. Hazard Identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Irrit. 2: Eye irritation, Category 2, H319

Skin Irrit. 2: Skin irritation, Category 2, H315

2.2. Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name: Bio 2 in 1 Laundry Capsules

Hazard Pictogram(s):



Signal Word(s): Warning

Hazard Statement(s): Harmful to aquatic life with long lasting effects
Causes serious eye irritation
Causes skin irritation

Precautionary Statement(s): Keep out of reach of children
Wear protective gloves/eye protection
IF ON SKIN: Wash with plenty of water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
If eye irritation persists: get medical advice/attention.
Dispose of the contents/containers in accordance with the current legislation on waste treatment.



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Supplementary information: Contains SUBTILISIN. May produce an allergic reaction.

2.3. Other hazards

Product fails to meet PBT/vPvB criteria

3. Composition / Information on Ingredients

Name	CAS No	EC No	Classification EC 1272/2008	Function	Concentration in product (range) (%)
Benzenesulfonic acid	85480-55-3	287-335-8	Acute Tox. 4: H302, Aquatic Chronic 3: H412; Eye Dam. 1: H318L Skin Irrit. 2: H315 - Danger		10+
C12-14 Pareth-7	68439-50-9	935-098-2	Acute Tox. 4: H302 Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger		10+
Fatty acids C12-18	91031-21-9	292-921-1	Eye Dam. 1: H318 – Danger		10+
Ethanolamine	141-43-5	205-483-3	Acute Tox. 4: H302+H312+ H332; Skin Corr. 1B: H314 – Danger		<1
Subtilisin	9014-01-1	232-752-2	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic		<1



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			Chronic 2: H411; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger		
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Further Ingredient information is available

here: http://uk.cleanright.eu/index.php?option=com_content&task=view&id=80&Itemid=111

4. First Aid Measures

4.1. Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

Inhalation	This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist
Skin Contact	Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.
Eye Contact	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.
Ingestion	Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.



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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not applicable

5. Fire Fighting Measures

5.1. Extinguishing media

Suitable Extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

Unsuitable extinguishing media:

None.

5.2. Special hazards arising from the substance or mixture

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3. Advice for firefighters

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. Accidental Release Measures



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6.1. Personal precautions, protective equipment and emergency procedures

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2. Environmental precautions

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3. Methods and material for containment and cleaning up

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4. Reference to other sections

See Also Section 8, 13.

7. Handling & Storage

7.1. Precautions for safe handling

A-Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C-Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D- Technical recommendations to prevent environmental risks



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Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature: Cool, dry, well ventilated location. Avoid sources of heat, radiation static electricity and contact with food. For additional information, see subsection 10.5.

Storage life: Stable under normal conditions.

Incompatible materials: None known.

7.3. Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8. Exposure Controls & Personal Protection

8.1. Control parameters

General Information

Hand protection

Not normally required for domestic use.

Skin Protection

Not normally required for domestic use.

Eye protection

Not normally required for domestic use.

Respiratory

Normally no personal respiratory protection is necessary.



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8.2. Exposure controls

Occupational Exposure Limits

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Non-applicable

D.- Ocular and facial protection

Non-applicable

E.- Body protection

Non-applicable

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

9. Physical & Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid

Violet

Odour

Pleasant

9.2. Other information

10. Stability & Reactivity

10.1. Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2. Chemical stability

Chemically stable under the conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid



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In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:
Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Avoid direct impact	Not applicable

10.5. Incompatible materials

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

Acids	Water	Combustive materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6. Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products.

Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. Toxicological Information

11.1. Information on toxicological effects

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

12. Ecological Information

12.1. Toxicity

Identification	Acute toxicity		Species	Genus
MEA-C10-13 ALKYL BENZENESULFONATE CAS: 85480-55-3 EC: 287-335-8	LC50	1.67 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		
C12-14 PARETH-7 CAS: 68439-50-9 EC: Non-applicable	LC50	10 - 100 mg/L (96 h)		Fish
	EC50	10 - 100 mg/L (48 h)		Crustacean
	EC50	10 - 100 mg/L (72 h)		Algae
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	LC50	349 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	65 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	22 mg/L (72 h)	Scenedesmus subspicatus	Algae
SUBTILISIN CAS: 9014-01-1 EC: 232-752-2	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
MEA-C10-13 ALKYL BENZENESULFONATE CAS: 85480-55-3 EC: 287-335-8	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
C12-14 PARETH-7 CAS: 68439-50-9 EC: Non-applicable	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	95 %
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	BOD5	Non-applicable	Concentration	20 mg/L
	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %



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12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
MEA-C10-13 ALKYL BENZENESULFONATE CAS: 85480-55-3 EC: 287-335-8	BCF	87
	Pow Log	
	Potential	Moderate
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	BCF	3
	Pow Log	-1.31
	Potential	Low

12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
MEA-C10-13 ALKYL BENZENESULFONATE CAS: 85480-55-3 EC: 287-335-8	Koc	1.16	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	Koc	0.27	Henry	3.7E-5 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	5.025E-2 N/m (25 °C)	Moist soil	No

12.5. Results of PBT and vPvB assessment

Product fails to meet PBT/vPvB criteria

12.6. Other adverse effects

Not known.

13. Disposal

13.1. Waste treatment methods

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 29*	detergents containing hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP6 Acute Toxicity

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

14. Transport Information

Not classified as hazardous for transport.



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14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains Glutaral.

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Regulation (EC) No 648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Labelling for contents:

Component	Concentration interval
Non-ionic surfactants	15 <= % (w/w) < 30



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Component	Concentration interval
Phosphonates	% (w/w) < 5
Enzymes	
Polycarboxylates	% (w/w) < 5
Optical brighteners	
Anionic surfactants	15 ≤ % (w/w) < 30
Soap	5 ≤ % (w/w) < 15
perfumes	

Allergenic fragrances: alpha-ISOMETHYL IONONE, CITRONELLOL, COUMARIN, LINALOOL.

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

COSHH-SR24 Storing chemical products (small scale).

COSHH-SR2 Diluting chemical concentrates.

COSHH-SR4 Manual cleaning and disinfecting surfaces.

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents

Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII

Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

15.2. Chemical safety assessment

A REACH chemical safety assessment has not been carried out

16. Other Information

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H319: Causes serious eye irritation

H412: Harmful to aquatic life with long lasting effects

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself, they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:



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Acute Tox. 4: H302 - Harmful if swallowed
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Eye Dam. 1: H318 - Causes serious eye damage
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage
Skin Irrit. 2: H315 - Causes skin irritation
STOT SE 3: H335 - May cause respiratory irritation

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

Other information:

Procedure used to derive the classification for mixtures according the article 9 of Regulation n° 1272/2008 (CLP)

- Skin corrosion or irritation: Skin Irrit 2, H315. Calculation method.
- Eye corrosion or irritation: Eye Irrit 2, H319. On basis of test data with a similar mixture (OECD 438 and modified OECD 405).
- Hazard for the aquatic environment: Aquatic Chronic 3, H412. Calculation method.

Disclaimers: The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.