

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

### 1.1. Product identifier

Product name **ECOSPERSE PLUS**

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

Intended use **Seawater antifoulant and Corrosion Inhibitor**

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

Name **UNIservice UNISAFE Srl**  
Full address **Via al Santuario di N.S. Guardia 58 a**  
District and Country **16162 Genova Bolzaneto (GE)**  
**Italia**  
**Tel. + 39 010 711395**  
**Fax + 39 010 713120**

e-mail address of the competent person

responsible for the Safety Data Sheet **info@uniservicemarine.com**

### 1.4. Emergency telephone number

For urgent inquiries refer to

**First Aid Information: Osp. " Pediatrico Bambino Gesù" - Dip. Emergenza e Accettazione DEA - 00165 - Roma - Piazza Sant' Onofrio, 4 - PIC: Mr.: Marco Marano - Phone :06 68593726.**  
**First Aid Information: Az. Osp. Univ. Foggia- Azienda Ospedaliera Universitaria riuniti, Foggia - V.le Luigi Pinto, 1- 71122 - PIC: Mrs.: Anna Lepre- phone.: 800183459.**  
**First Aid Information:Az. Osp. "A. Cardarelli" -Servizio di Anestesia e rianimazione- Napoli, Via A. Cardarelli, 9- 80131- Phone: 081-5453333. PIC: Mr.: Romolo Villani.**  
**First Aid Information: Policlinico "Umberto I" -PRGM tossicologia d'urgenza, Roma - V.le del Policlinico, 155, cap 161- phone. 06-49978000- PIC: Mrs.: M. Caterina Grassi.**  
**First Aid Information: Policlinico "A. Gemelli", Servizio di tossicologia clinica, Roma, Largo Agostino Gemelli, 8- CAP: 168- phone: 06-3054343 - PIC: Mr.: Alessandro Barelli.**  
**First Aid Information: Az. Osp. "Careggi" U.O. Tossicologia Medica- Firenze, via Largo Brambilla, 3- CAP: 50134 -Phone: 055-7947819 -PIC: Mr.: Francesco Gambassi.**  
**First Aid Information: Centro Nazionale di Informazione Tossicologica-IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione - Pavia, Via Salvatore Maugeri, 10- CAP: 27100- Phone : 0382-24444 - PIC: Mr.: Carlo Locatelli.**  
**First Aid Information: Osp. Niguarda Ca' Granda - Milano, Piazza Ospedale Maggiore,3- CAP :20162- Phone: 02-66101029- PIC: Mrs.: Franca Davanzo.**  
**First Aid Information: Azienda Ospedaliera Papa Giovanni XXII - Bergamo- Piazza OMS, 1 - CAP: 24127 -Phone: 800883300- PIC: Mr.: Bacis Giuseppe.**  
**First Aid Information:Azienda Ospedaliera Integrata Verona, CAP: 37126 - Piazzale Aristide Stefani, 1,CAP: 37126- Phone: 800011858- PIC: Mr.: Giorgio Ricci.**

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

2.2. Label elements

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

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210** Safety data sheet available on request.

**EUH208** Contains: 5-CHLORO-2-METHYL-3 2H) -ISOTHIAZOLONE MIXT. with 2- METHYL-3 2H) -ISOTHIAZOLONE  
May produce an allergic reaction.

Precautionary statements: --

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>Amine acetate in aqueous solution</b>		
INDEX -	5 ≤ x < 10	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1 STA Oral: 500 mg/kg
EC 263-196-9		
CAS 61791-64-8		
<b>5-CHLORO-2-METHYL-3 2H) - ISOTHIAZOLONE MIXT. with 2-METHYL-3 2H) -ISOTHIAZOLONE</b>		
INDEX 613-167-00-5	0 ≤ 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 Skin Corr. 1B H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3 mg/l
EC -		
CAS 55965-84-9		

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).

## 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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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

Information not available

## 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.

### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): 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 A 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.

**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

Properties	Value	Information
Appearance	liquid	
Colour	clear	
Odour	technical	
Melting point / freezing point	-2 °C	
Initial boiling point	100 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	7	
Kinematic viscosity	not available	
Dynamic viscosity	150 mPa.s	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	2000 kPa	
Density and/or relative density	0.98 - 1.02	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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

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.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### 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

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Information not available		
<u>Interactive effects</u>		
Information not available		
<u>ACUTE TOXICITY</u>		
ATE (Inhalation) of the mixture:		Not classified (no significant component)
ATE (Oral) of the mixture:		>2000 mg/kg
ATE (Dermal) of the mixture:		Not classified (no significant component)
Amine acetate in aqueous solution		
STA (Oral):		500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
5-CHLORO-2-METHYL-3 2H) -ISOTHIAZOLONE MIXT. with 2- METHYL-3 2H) -ISOTHIAZOLONE		
LD50 (Dermal):		> 1008 mg/kg Rat - Source: OECD 402
STA (Dermal):		300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):		472 mg/kg Rat - Source:OECD 401
LC50 (Inhalation vapours):		1,23 mg/l/4h Rat - Source: OECD 403
<u>SKIN CORROSION / IRRITATION</u>		
Does not meet the classification criteria for this hazard class		
<u>SERIOUS EYE DAMAGE / IRRITATION</u>		
Does not meet the classification criteria for this hazard class		
<u>RESPIRATORY OR SKIN SENSITISATION</u>		
May produce an allergic reaction.		
Contains: 5-CHLORO-2-METHYL-3 2H) -ISOTHIAZOLONE MIXT. with 2- METHYL-3 2H) -ISOTHIAZOLONE		
<u>GERM CELL MUTAGENICITY</u>		
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

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

5-CHLORO-2-METHYL-3 2H) - ISOTHIAZOLONE MIXT. with 2- METHYL-3 2H) -ISOTHIAZOLONE	
LC50 - for Fish	1,57 mg/l/96h Oncorhynchus mykiss - Note: OECD 203
EC50 - for Crustacea	0,71 mg/l/48h Daphnia magna - Note: OECD 202
EC50 - for Algae / Aquatic Plants	0,35 mg/l/72h Pseudokirchneriella subcapitata- Note: OECD 201

12.2. Persistence and degradability



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Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

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  $\geq$  than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.  
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 or ID 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. Maritime transport in bulk according to IMO instruments

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/EU: None

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

Contained substance

Point	75
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Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

**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:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

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<p>LEGEND:</p> <ul style="list-style-type: none"> <li>- ADR: European Agreement concerning the carriage of Dangerous goods by Road</li> <li>- ATE: Acute Toxicity Estimate</li> <li>- CAS: Chemical Abstract Service Number</li> <li>- CE50: Effective concentration (required to induce a 50% effect)</li> <li>- CE: Identifier in ESIS (European archive of existing substances)</li> <li>- CLP: Regulation (EC) 1272/2008</li> <li>- DNEL: Derived No Effect Level</li> <li>- EmS: Emergency Schedule</li> <li>- GHS: Globally Harmonized System of classification and labeling of chemicals</li> <li>- IATA DGR: International Air Transport Association Dangerous Goods Regulation</li> <li>- IC50: Immobilization Concentration 50%</li> <li>- IMDG: International Maritime Code for dangerous goods</li> <li>- IMO: International Maritime Organization</li> <li>- INDEX: Identifier in Annex VI of CLP</li> <li>- LC50: Lethal Concentration 50%</li> <li>- LD50: Lethal dose 50%</li> <li>- OEL: Occupational Exposure Level</li> <li>- PBT: Persistent bioaccumulative and toxic as REACH Regulation</li> <li>- PEC: Predicted environmental Concentration</li> <li>- PEL: Predicted exposure level</li> <li>- PNEC: Predicted no effect concentration</li> <li>- REACH: Regulation (EC) 1907/2006</li> <li>- RID: Regulation concerning the international transport of dangerous goods by train</li> <li>- TLV: Threshold Limit Value</li> <li>- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.</li> <li>- TWA: Time-weighted average exposure limit</li> <li>- TWA STEL: Short-term exposure limit</li> <li>- VOC: Volatile organic Compounds</li> <li>- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation</li> <li>- WGK: Water hazard classes (German).</li> </ul> <p>GENERAL BIBLIOGRAPHY</p> <ol style="list-style-type: none"> <li>1. Regulation (EC) 1907/2006 (REACH) of the European Parliament</li> <li>2. Regulation (EC) 1272/2008 (CLP) of the European Parliament</li> <li>3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)</li> <li>4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament</li> <li>5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament</li> <li>6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament</li> <li>7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament</li> <li>8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament</li> <li>9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament</li> <li>10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</li> <li>11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament</li> <li>12. Regulation (EU) 2016/1179 (IX Atp. CLP)</li> <li>13. Regulation (EU) 2017/776 (X Atp. CLP)</li> <li>14. Regulation (EU) 2018/669 (XI Atp. CLP)</li> <li>15. Regulation (EU) 2019/521 (XII Atp. CLP)</li> <li>16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)</li> <li>17. Regulation (EU) 2019/1148</li> <li>18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)</li> <li>19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)</li> <li>20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)</li> <li>21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)</li> <li>22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)</li> </ol> <ul style="list-style-type: none"> <li>- The Merck Index. - 10th Edition</li> <li>- Handling Chemical Safety</li> <li>- INRS - Fiche Toxicologique (toxicological sheet)</li> <li>- Patty - Industrial Hygiene and Toxicology</li> <li>- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition</li> <li>- IFA GESTIS website</li> <li>- ECHA website</li> <li>- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy</li> </ul>	

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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.

**CALCULATION METHODS FOR CLASSIFICATION**  
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.  
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.  
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:  
The following sections were modified:  
08.