



FILA INDUSTRIA CHIMICA S.P.A.

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CONCRETE HYDRO

Safety data sheet compliant with regulation (EC) no. 1907/2006 (REACH), Annex II, and subsequent amendments introduced by Commission Regulation (EU) no. 2020/878

According to Annex II to REACH - Regulation 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 CONCRETE HYDRO

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

Intended use Consolidant water -repellent protective for concrete walls

Identified Uses	Industrial	Professional	Consumer
Uses	-	✓	-

1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country
Tel. +39.049.9467300
Fax +39.049.9460753

FILA INDUSTRIA CHIMICA S.P.A.
Via Garibaldi, 58
35018 San Martino di Lupari (PD)
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e-mail address of the competent person
responsible for the Safety Data Sheet
Supplier:

sds@filasolutions.com
FILA SURFACE CARE PRODUCTS
LIMITED
12 Bridewell Place,
Third Floor East,
London
EC4V 6AP

1.4. Emergency telephone number

For urgent inquiries refer to

TEL +39.049.9467300 (Monday –
Friday; 8.30 - 12.30 and 14.00 - 17.30)
UNITED KINGDOM: NHS Direct 111 (In England, Scotland North Ireland) 08454647
(Wales); IRELAND 018092166

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 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

**CONCRETE HYDRO**

Hazard classification and indication:

Skin corrosion, category 1A

H314

Causes severe skin burns and eye damage.

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:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.**P280** Wear protective gloves/ protective clothing / eye protection / face protection.**P301+P310** IF SWALLOWED: immediately call a POISON CENTER/ doctor.**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310** Immediately call a POISON CENTER / doctor.**P501** Dispose of contents / container in accordance with local/regional/national/international regulation.**Contains:** Potassium methylsilanetriolate**2.3. Other hazards**On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.**SECTION 3. Composition/information on ingredients****3.1. Substances**

Information not relevant

3.2. Mixtures

Contains:

**CONCRETE HYDRO**

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
potassium silicate		
CAS 1312-76-1	$5 \leq x < 9,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 215-199-1		
INDEX -		
REACH Reg. 01-2119456888-17		
Potassium methylsilanetriolate		
CAS 31795-24-1	$3 \leq x < 5$	Skin Corr. 1A H314, Eye Dam. 1 H318
EC 250-807-9		
INDEX -		
REACH Reg. 01-2119517439-34		

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**

General indications:

Bring people safe. First aid employees must observe personal protection measures. In case of contact with the substance, consult the doctor absolutely.

After contact with the eyes:

Wash immediately with a lot of water for 10-15 minutes. Keep the eyelids open in order to rinse with water the whole surface of the eye and the eyelids themselves. Consult the doctor immediately and indicate exactly the substance. Continue to cleanse your eyes even during transport to the doctor.

After contact with the skin:

Immediately remove the dirty and product clothing. Wash with plenty of water or soap and water for 10-15 minutes. In the case of large quantities, use the emergency shower immediately. Consult the doctor immediately and indicate exactly the substance.

After inhalation:

Make the injured person bed. In case of loss of the senses to lie down the injured person on his side. Repair the injured person from the cold. In case of respiratory arrest, make mouth mouth breathing. Consult the doctor immediately and indicate exactly the substance.

After ingestion:

Make a lot of water in small doses but only if the person has not lost their senses. Do not cause vomiting. Consult the doctor immediately and indicate exactly the substance.

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

It causes serious skin burns and serious eye injuries.

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

After inhalation: treat with cortisone spray as soon as possible. Undergo medical supervision for a latency time of min. 24 hours. For 1st degree burns apply corticoids for external use. For burns starting from the 2nd degree, provide for symptomatic therapy. Further information on the toxicology in paragraph 11 are to be observed.

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

**CONCRETE HYDRO**

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**

Information for a safe manipulation of the product:

Avoid contact with acids. Avoid the formation of aerosoli. In the case of aerosol formation it is necessary to take special protection measures (aspiration, protection of the respiratory tract).

Indications on fire and antideflacrant protection:

Particular protection measures from fires and explosions are not necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements of storage premises and containers:



CONCRETE HYDRO

Do not keep aluminum containers or other light metals.

Indications for common storage:

Avoid contact with acids.

Further indications on the storage conditions:

Keep the containers closed.

7.3. Specific end use(s)

See section 01 for the defined uses. There are no special uses.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Potassium silicate

Predicted no-effect concentration - PNEC

Normal value in fresh water	7,5	mg/l
Normal value in marine water	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	348	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,74 mg/kg bw/d				
Inhalation			VND	1,38 mg/m3			VND	5,61 mg/m3
Skin			VND	0,74 mg/kg bw/d			VND	1,49 mg/kg bw/d

Potassium methylsilanetriolate

Predicted no-effect concentration - PNEC

Normal value in fresh water	4,2	mg/l
Normal value in marine water	0,42	mg/l
Normal value for fresh water sediment	3,3	mg/kg
Normal value for marine water sediment	0,33	mg/kg
Normal value for water, intermittent release	42	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	3,3	mg/kg
Normal value for the terrestrial compartment	0,54	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				0,42 mg/kg bw/d				
Inhalation		10 mg/m3		10 mg/m3		47 mg/m3		47 mg/m3
Skin		4,0 mg/kg bw/d		4,0 mg/kg bw/d		6,6 mg/kg bw/d		6,6 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**CONCRETE HYDRO****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.

Hands protection

In the manipulation of this product it is always necessary to wear protective gloves in accordance with the rules recognized as EN374.

Recommended material for gloves: protective gloves in nitrilic rubber

Thickness of the material:> 0.4 mm

Permeation time:> 480 min

Recommended material for gloves: protective gloves in butyl rubber

Thickness of the material:> 0.3 mm

Permeation time:> 480 min

Observe the instructions regarding permeability and penetration time that are provided by the gloves supplier. Also want to consider the specific local conditions in which the product is used, such as danger of cuts, abrasion and the duration of contact. It should be taken into account that, in the practice, in the face of the many influence factors (for example the temperature), the duration of daily use of a protective glove resistant to chemicals can be considerably lower than the permeation time detected by the tests.

SKIN PROTECTION

Wear category III 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 (ref. Standard EN 166).

Respiratory protection

Normally no protective device is required.

In case of exposure to fog, spray or aerosol, wear an adequate protective system for breathing and a protective garment. Adequate respiratory devices: respiratory appliance with full mask, in accordance with recognized standards such as EN 136.

Suggested filter type: ABEK-P2 combined filter (certain gas and organic acids and vapors and vapors; ammonia/amines; particles), in accordance with recognized standards such as EN 14387.

Time must be observed for use for respiratory devices as well as the indications of the relative manufacturer.

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	colourless	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	

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Upper explosive limit	not available
Flash point	> 60 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
pH	12,6
Kinematic viscosity	not available
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	17,43 mmHg
Density and/or relative density	1,04 kg/l
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**

No dangerous reaction known if stored and manipulated as prescribed.

10.2. Chemical stability

No dangerous reaction known if stored and manipulated as prescribed.

10.3. Possibility of hazardous reactions

No dangerous reaction known if stored and manipulated as prescribed.

10.4. Conditions to avoid

Heat, strong acids.

10.5. Incompatible materials

Reacts with: acids. The reaction takes place with heat development.

10.6. Hazardous decomposition products

If stored and manipulated in accordance with the provisions: none known.

**CONCRETE HYDRO****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 1272/2008Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

Potassium silicate

LD50 (Dermal):	> 5000 mg/kg rat
LD50 (Oral):	> 5000 mg/kg rat
LC50 (Inhalation vapours):	> 2,06 g/m ³ rat

Potassium methylsilanetriolate



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LD50 (Oral): > 2000 mg/kg

SKIN CORROSION / IRRITATION

Corrosive for the skin

Classification according to the experimental Ph value

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

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



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Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

**CONCRETE HYDRO**Route of exposure

Information not available

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

Potassium methylsilanetriolate	
LC50 - for Fish	> 500 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 3,6 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

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

**CONCRETE HYDRO**

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. 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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 1719

14.2. UN proper shipping name

ADR / RID: CAUSTIC ALKALI LIQUID, N.O.S. (Potassium methylsilanetriolate)

IMDG: CAUSTIC ALKALI LIQUID, N.O.S. (Potassium methylsilanetriolate)

IATA: CAUSTIC ALKALI LIQUID, N.O.S. (Potassium methylsilanetriolate)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards



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ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special provision: 274		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

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

Product
Point 3

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

**CONCRETE HYDRO**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.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

potassium silicate

SECTION 16. Other information

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

Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: 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: Regulation (EC) 1907/2006

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- 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) 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
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 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
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- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
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 - IFA GESTIS website
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 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be construed as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.

Provide adequate training to personnel assigned to the use of chemical products.

This safety data sheet has been prepared by a competent technician who has received suitable training.

METHODS OF CALCULATING THE CLASSIFICATION

Physico-chemical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for assessing the physico-chemical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.