

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name : ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)
Registration number REACH : Not applicable (article)
Product type REACH : Article

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

1.2.1 Relevant identified uses

Absorbent: electromagnetics

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

LAIRD NV
Bell Telephonaan 2B
B-2440 Geel
☎ +32 14 56 25 00
📠 +32 14 56 25 01
Geel.Sales@Lairdtech.com

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Not classified as dangerous according to the criteria of Directive(s) 67/548/EEC and/or 1999/45/EC

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)

Labelling does not apply to articles

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labelling does not apply to articles

2.3 Other hazards:

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

In normal conditions of use, the components cannot be released because of the form in which the article or preparation is placed on the market

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
4-nonylphenol, branched (-)	84852-15-3 284-325-5	C<1.5 %	Repr. Cat. 3; R62 - 63 Xn; R22 C; R34 N; R50-53	Repr. 2; H361fd Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(4)(8)(9) (10)	Constituent

(1) For R-phrases and H-statements in full: see heading 16

(4) Enumerated in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No. 1907/2006)

(8) Specific concentration limits, see heading 16

(9) M-factor, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Not applicable.

After skin contact:

Not applicable.

After eye contact:

Not applicable.

After ingestion:

Not applicable.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours and formation of metallic fumes.

5.3 Advice for firefighters:

5.3.1 Instructions:

Dilute toxic gases with water spray.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

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Revision number: 0001

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No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

No data available

6.3 Methods and material for containment and cleaning up:

Pick-up the material.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe normal hygiene standards.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Meet the legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
No data available		

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Not required for normal conditions of use.

b) Hand protection:

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Not required for normal conditions of use.

c) Eye protection:

Not required for normal conditions of use.

d) Skin protection:

Not required for normal conditions of use.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Flexible solid material
Odour	No data available on odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	No data available
Explosion limits	No data available
Flammability	Non-flammable
Log Kow	No data available
Dynamic viscosity	Not applicable
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Relative vapour density	Not applicable
Solubility	water ; Not applicable
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

Physical hazards

No physical hazard class

9.2 Other information:

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:

Heating increases the fire hazard.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours and formation of metallic fumes.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

4-nonylphenol, branched

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Other	1412 mg/kg bw		Rat	Male/female	Experimental value
Dermal	LD50		3160 mg/kg bw		Rabbit		Experimental value

Conclusion

Not classified for acute toxicity

Corrosion/irritation

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

4-nonylphenol, branched

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Skin	Corrosive	OECD 404	4 h		Rabbit	Experimental value

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

4-nonylphenol, branched

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	OECD 408	50 mg/kg		No effect	90 day(s)	Rat	Male/female	Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test) data on the mixture available

Mutagenicity (in vivo)

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

4-nonylphenol, branched

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	OECD 474		Mouse	Male/female		Experimental value

Carcinogenicity

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

Reproductive toxicity

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

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4-nonylphenol, branched

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Effects on fertility	NOAEL	OECD 416	15 mg/kg bw/day		Rat	Female			Experimental value
	LOAEL	OECD 416	50 mg/kg bw/day		Rat	Male/female			Experimental value

Conclusion CMR

Not classified for carcinogenicity
 Not classified for mutagenic or genotoxic toxicity
 Not classified for reprotoxic or developmental toxicity

Toxicity other effects

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

Chronic effects from short and long-term exposure

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

No (test) data on the mixture available

4-nonylphenol, branched

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.56 mg/l	96 h	Salmo gairdneri (Oncorhynchus mykiss)	Static system		
	LC50	ASTM E729-96	0.08 mg/l	96 h	Pisces	Static system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50		0.14 mg/l	48 h	Daphnia magna			Literature study
	EC50	ASTM E729-88	0.085 mg/l	48 h	Daphnia magna	Semi-static	Fresh water	Experimental value
	LC50	OECD 202	0.026 mg/l	48 h	Ceriodaphnia sp.	Static system	Fresh water	Experimental value
	NOEL	OECD 202	<10 mg/l	48 h	Ceriodaphnia sp.	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50		1.3 mg/l	72 h	Scenedesmus subspicatus			Inhibitory
	EC50	EPA OTS 797.1050	0.027 mg/l	96 h	Skeletonema costatum	Static system	Salt water	Experimental value; GLP

Conclusion

No data available on ecotoxicity

12.2 Persistence and degradability:

4-nonylphenol, branched

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	62 %	28 day(s)	

Conclusion

Biodegradability in water: no data available

12.3 Bioaccumulative potential:

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

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4-nonylphenol, branched

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		271	480 h	Pimephales promelas	Literature study
	OECD 305	1200/1300	32 day(s)	Gasterosteus aculeatus	Experimental value
	Other	740	28 day(s)	Pimephales promelas	Experimental value

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		3.28		

Conclusion

No bioaccumulation data available

12.4 Mobility in soil:

4-nonylphenol, branched

(log) Koc

Parameter	Method	Value	Value determination
log Koc	Other	>= 4.35 - <= 5.69	Experimental value

Conclusion

Not applicable (article)

12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

07 02 99 (wastes not otherwise specified). Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Remove to an authorized waste treatment plant.

13.1.3 Packaging/Container

No data available.

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	

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Rail (RID)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	

Inland waterways (ADN)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	

Sea (IMDG/IMSBC)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
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14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	
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Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
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14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

14.6 Special precautions for user:

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

SECTION 15: Regulatory information

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

European legislation:

REACH Candidate list

Contains component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

4-nonylphenol, branched	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
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National legislation The Netherlands

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	Not applicable (article)

4-nonylphenol, branched

SZW - List of reprotoxic substances (fertility)	Possible risk of impaired fertility
SZW - List of reprotoxic substances (development)	Possibly hazardous to the foetus

National legislation Germany

ECCOSORB BSR-U/CRS-UB/DSF-U/FDS-U/FGM-U/GDS-U/MCS-U/MF-U/SB-U/SF-U/MMI-U/MMI-U-P (SA)

WGK	Not applicable (article)
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4-nonylphenol, branched

TA-Luft	TA-Luft Klasse 5.2.5/I
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15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Information based on classification according to CLP

Labelling according to Regulation EC No 1272/2008 (CLP)

Labelling does not apply to articles

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Labelling does not apply to articles

Full text of any R-phrases referred to under headings 2 and 3:

- R22 Harmful if swallowed
- R34 Causes burns
- R50 Very toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R62 Possible risk of impaired fertility
- R63 Possible risk of harm to the unborn child

Full text of any H-statements referred to under headings 2 and 3:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

M-factor

4-nonylphenol, branched	10	Acute	BIG
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Specific concentration limits DSD

4-nonylphenol, branched	0.025 % ≤ C < 0.25 %	N;R 52/53	ECHA
	0.25 % ≤ C < 2.5 %	N;R 51/53	ECHA
	C ≥ 2.5 %	N;R 50/53	ECHA

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