

SOUDAL**SAFETY DATA SHEET**

Pursuant to Regulation (EC) No 1907/2006, as amended by Regulation (EC) No 453/2010

Soudaseal 222 LM**SECTION 1: Identification of the substance / mixture and of the company / undertaking****1.1 Product identifier:**

Product name : Soudaseal 222 LM
Registration number REACH : Can not be used (mixture)
Product type REACH : Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against:**1.2.1 Relevant identified uses**

Sealing product

1.2.2 Discouraged uses

No known uses advised against

1.3 Details of the supplier of the safety data sheet:**Supplier of the safety data sheet**

SOUDAL NV
 Everdongenlaan 18-20
 B-2300 Turnhout
 Tel: +32 14 42 42 31
 Fax: +32 14 44 39 71
 msds@soudal.com

The manufacturer of the product

SOUDAL NV
 Everdongenlaan 18-20
 B-2300 Turnhout Tel: +32
 14 42 42 31
 Fax: +32 14 44 39 71
 msds@soudal.com

1.4 Emergency telephone:

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

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 67/548 / EEC and / or 1999/45 / EC

2.2 Label elements:**Labeling according to Regulation EC No 1272/2008 (CLP)**

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

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

Not classified as dangerous according to Directive 67/548 / EEC and / or Directive 1999/45 / EC

2.3 Other hazards:**CLP**

Contains traces of a (possible) fertility-damaging substance
 Contains traces of a (possible) teratogenic substance

DSD / DPD

Contains traces of a (possible) fertility-damaging substance

Prepared by: Fire brigade information center for dangerous substances vzw (BIG)
 Technische Schoolstraat 43 A, B-2440 Geel <http://www.big.be> © BIG vzw

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Contains traces of a (possible) teratogenic substance

SECTION 3: Composition / information on ingredients

3.1 Substances:

Can not be used

3.2 Mixtures:

Name (REACH registration number)	CAS No. EF No.	Conc. (C)	Classification by DSD / DPD	Classification according to CLP Note	Remark
bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate (-)	52829-07-9 258-207-9	0.1% <C <2.5%	Xi; R36 N; R51-53	Eye Irrit. 2; H319 Aquatic Chronic 2; H411	(1)
Component					

(1) Full text of R- and H-phrases: see point 16

SECTION 4: First aid measures

4.1 Description of first aid measures:

In general:

If you feel unwell, consult a doctor.

Inhalation:

Move casualties out into fresh air. In case of respiratory problems: consult a doctor / medical service.

Skin contact:

Rinse immediately with plenty of water. Soap can be used. Accidents are taken to a doctor if irritation persists.

Eye contact:

Rinse with water. Accidents are taken to an ophthalmologist if irritation persists.

Ingestion:

Rinse mouth with water. In case of malaise: consult doctor / medical service.

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

4.2.1 Acute symptoms

Inhalation:

No known side effects.

Skin contact:

AFTER LONG TERM EXPOSURE / CONTACT: Dry skin. Cracked skin.

Eye contact:

No known side effects.

Ingestion:

No known side effects.

4.2.2 Delayed symptoms

No known side effects.

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

If relevant and available, it will be listed below.

SECTION 5: Firefighting

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No known unsuitable extinguishing media.

5.2 Special hazards arising from the substance or mixture:

On combustion: CO, CO₂ and small amounts of nitrate vapors, hydrogen chloride, sulfur oxides are formed.

5.3 Instructions for firefighters:

5.3.1 Instructions:

Special fire-fighting instructions are not required.

5.3.2 Special personal protective equipment to be worn by firefighters:

Gloves. Protective suit. In case of fire / heat: compressed air / oxygen device.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures:

No open fire.

6.1.1 Personal protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Personal protective equipment for emergency personnel

Gloves. Protective suit.

Special workwear

See heading 8.2

6.2 Environmental protection measures:

Collect the free-flowing product. Take appropriate precautions to avoid spreading to the environment.

6.3 Methods and material for containment and cleaning up:

Spilled liquid is placed in tightly closed containers. Contaminated surfaces are cleaned with soap solution. After work, clean clothes and materials.

6.4 Reference to other points:

See heading 13.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling:

Keep away from open flames / heat. Normal hygiene is followed. Keep the package tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Requirements for safe storage:

Store dry. Store at room temperature. Follow the legal norms. Max. shelf life: 1 year.

7.2.2 Store separately from:

Heat sources.

7.2.3 Suitable packaging material:

Synthetic material.

7.2.4 Unsuitable packaging material:

Insufficient data

7.3 Specific end use (s):

If exposure scenarios are relevant and available, they are attached. See manufacturer's information.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are relevant and available, they are listed below.

b) National biological limit values

If limit values are relevant and available, they are listed below.

8.1.2 Sampling methods

Product name	Test	Number
No data		

8.1.3 Applicable limit values for the intended use of the substance or mixture

If limit values are relevant and available, they are listed below.

8.1.4 DNEL / PNEC values

Workers

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Power level (DNEL / DMEL)	Type	Value	Remark
DNEL	Acute systemic effects, inhalation	2 mg / kg bw / day	
	Acute systemic effects, dermal	5.6 mg / m³	
	Long-term systemic effects, dermal	2 mg / kg bw / day	
	Long-term systemic effects, inhalation	5.6 mg / m³	

Ordinary population

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bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Power level (DNEL / DMEL)	Type	Value	Remark
DNEL	Acute systemic effects, dermal	1 mg / kg bw / day	
	Acute systemic effects, inhalation	1.4 mg / m³	
	Acute systemic effects, oral	1 mg / kg bw / day	
	Long-term systemic effects, dermal	1 mg / kg bw / day	
	Long-term systemic effects, inhalation	1.4 mg / m³	
	Long-term systemic effects, oral	1 mg / kg bw / day	

PNEC

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Room	Value	Remark
Fresh water	0.005 mg / l	
Sea water	0.0005 mg / l	
Aqua (intermittent releases)	0.011 mg / l	
STP	1 mg / l	
Fresh water sediment	8.02 mg / kg sediment dw	
Fresh water	0.802 mg / kg sediment dw	
Land	1.6 mg / kg soil dw	

8.1.5 Control banding

If relevant and available, it will be listed below.

8.2 Exposure controls:

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

8.2.1 Appropriate engineering controls

Keep away from open flames / heat. Perform work in the open air / under a ventilator / during ventilation or with respiratory protection.

8.2.2 Individual protection measures such as personal protection

Normal hygiene is followed. Keep the package tightly closed. Do not eat, drink or smoke during work. a) Respiratory protection:

In case of insufficient ventilation: wear respiratory protection.

b) Hand protection:

Gloves.

c) Eye protection:

Goggles. d) Skin

protection:

Protective clothing.

8.2.3 Measures to limit exposure to the environment:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical shape	Pasta
Smell	Characteristic odor
Odor threshold	No data
Color	Variable color, depending on composition
Particle size	No data
Explosion limits	No data
Flammability	Highly flammable
Log Kow value	Can not be used (mixture)
Dynamic viscosity	No data
Kinematic viscosity	No data
Melting point	No data
Boiling point	No data
Flash point	No data
Evaporation rate	No data
Vapor pressure	No data
Relative vapor density	No data
Solubility	water; not soluble
	organic solvent; soluble

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Relative density	1.6
Decomposition temperature	No data
Auto-ignition temperature	No data
Explosive properties	No chemical group is associated with explosive properties
Oxidizing properties	No chemical group is associated with oxidizing properties
pH	No data

Physical hazards

No physical hazard class

9.2 Other information:

Surface tension	No data
Absolute density	1600 kg / m ³

SECTION 10: Stability and reactivity

10.1 Reactivity:

In case of heating: increased risk of fire.

10.2 Chemical stability:

Stable under normal circumstances.

10.3 Possibility of hazardous reactions:

Insufficient data.

10.4 Conditions to avoid:

Keep away from open flames / heat.

10.5 Materials to avoid:

Insufficient data.

10.6 Hazardous decomposition products:

On combustion: CO, CO₂ and small amounts of nitrate vapors, hydrogen chloride, sulfur oxides are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Exposure path	Parameter	Method	Value	Exposure time	Art	Genealogy	Determination of value
Oral	LD50	Same as OECD 423	3700 mg / kg bw 4 t		Rat	Man Woman	Experimental value
Dermal	LD50	Same as OECD 402	> 3170 mg / kg bw 24 h		Rat	Man Woman	Experimental value
Inhalation (aerosol)	LC50	Same as OECD 403	0.5 mg / l air	4 weeks (daily, 5 days / week)	Rat	Man Woman	Experimental value

Conclusion

Low acute dermal toxicity

Low acute toxicity by oral route

Low acute inhalation toxicity

Corrosion / irritation

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Exposure route	Result	Method	Exposure time	Time 1; 24;	Nature	Determination of value
Eye	Very annoying OECD 405		h	48; 72; 168 hours	Rabbit	Experimental value
Skin	Non-irritating OECD 404		24 h	24, 48, 72 hours	Rabbit	Experimental value

Conclusion

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Not classified as irritating to the skin
Not classified as irritating to the eyes

Respiratory or skin sensitization

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Exposure route	Result	Method	Exposure time	Observation time	Art	Genealogy	Determination of value
Skin	Not sensitizing	OECD 406		24 hours	Guinea pig	Man Woman	Experimental value

Conclusion

Not sensitizing to the skin

Specific target organ toxicity

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Exposure path	Parameter	Method	Value	Organ	Effect	Exposure time	Nature	Genealogy	Determination of value
Oral	NOAEL	Same as OECD 408	<29 mg / kg bw / day		No effect	13 week (s)	Rat	She	Experimental value
Oral	LOAEL	Same as OECD 408	29 mg / kg bw / day		Weight reduction	13 week (s)	Rat	She	Experimental value

Conclusion

Low subchronic toxicity by oral route

Germ cell mutagenicity (in vitro)

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Result	Method	Test substance	Effect	Determination of value
Negative with metabolism activation, negative without metabolism activation	OECD 476	Pulmonary fibroblasts in Chinese hamster		Experimental value
Negative with metabolism activation, negative without metabolism activation	OECD 473	Human lymphocytes		Experimental value
Negative with metabolism activation, negative without metabolism activation	Same as OECD 471	Bacteria (S.typhimurium)		Experimental value

Mutagenicity (in vivo)

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No test data available for the mixture

Carcinogenic properties

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No test data available for the mixture

Reproductive toxicity

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

	Parameter	Method	Value	Exposure time	Art	Genealogy	Effect	Organ	Determination of value
Developmental toxicity	NOAEL (P / F1)	OECD 415	30 mg / kg bw / day		Rat	Male / female	Weight change is		Experimental value

Conclusion CMR

Not classified for reproductive or developmental toxicity
Not classified for mutagenic or genotoxic toxicity

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Not classified for carcinogenicity

Toxicity - other effects

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No test data available for the mixture

Chronic effects of short-term and long-term exposure

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No known side effects.

11.1.2 Other information

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No test data available for the mixture

SECTION 12: Ecological information

12.1 Toxicity:

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No test data available for the mixture

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

	Parameter	Method	Value	Duration	Nature	Test design	Fresh / salt water	Determination of value
Acute toxicity to fish	LC50		4.4 mg / l	96 t	Brachydanio rerio			
	LC50	OECD 203	4.4 mg / l	96 t	Lepomis macrochirus	Sprinkle through mningssystem	Fresh water	Experimental value
	LC50	OECD 203	5.29 mg / l	17	Oryzias latipes	Semistatic	Fresh water	Experimental value
Acute toxicity to invertebrates	EC50	OECD 202	mg / l	24 h	Daphnia magna			
	LC50	OECD 202	8.58 mg / l	48 t	Daphnia magna	Semistatic	Fresh water	Experimental value
	NOEC	OECD 202	4 mg / l	48 t	Daphnia magna	Semistatic	Fresh water	Experimental value
Toxicity of algae and other aquatic plants	EC50	OECD 201	1.1 mg / l	72 t	Pseudokirchneriella subcapitata	Static system	Sweet water	Experimental value
	NOEC	OECD 201	0.05 mg / l	72 t	Pseudokirchneriella subcapitata	Static system	Sweet water	Experimental value
	EC50	EU method C.3	1.9 mg / l	72 t	Desmodesmus subspicatus	Static system	Sweet water	Experimental value
	NOEC	EU method C.3	<1.23 mg / l	72 h	Desmodesmus subspicatus	Static system	Sweet water	Experimental value
Long-term toxicity to invertebrates aquatic animals	EC50	OECD 211	1.31 mg / l	21 day (s)	Daphnia magna	Semistatic	Fresh water	Experimental value
	EC50	OECD 211	0.96 mg / l	21 day (s)	Daphnia magna	Semistatic	Fresh water	Experimental value
	NOEC	OECD 211	0.23 mg / l	21 day (s)	Daphnia magna	Semistatic	Fresh water	Experimental value
	LOEC	OECD 211	0.61 mg / l	21 day (s)	Daphnia magna	Semistatic	Fresh water	Experimental value
Toxicity to micro-organisms in water	IC50	OECD 209	> 100 mg / l	3 h	Activated sludge	Static system	Sweet water	Experimental value

The classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Before ecotoxicity data

12.2 Persistence and degradability:

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bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Biodegradability in water

Method	Value	Duration	Determination of value
OECD 301E	29%	28 day (s)	Experimental value
OECD 301B	10-24%	28 day (s)	Experimental value

Photolysis in air (DT50 air)

Method	Value	Conc. OH radicals	Determination of value
SRC AOP v1.92	2.54 t	500000 molecules / cm ³	Calculated value

Conclusion

Contains hard degradable component (s)

12.3 Bioaccumulative potential:

Log Kow value

Method	Remark	Value	Temperature	Determination of value
	Can not be used (mixture)			

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Log Kow value

Method	Remark	Value	Temperature	Determination of value
		0.35		

Conclusion

No test data available for component (s)

12.4 Mobility in soil:

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

(log) Koc

Parameter	Method	Value	Determination of value
Koc	OECD 106	> = 780 <= 16000	Experimental value
log Koc	OECD 106	> = 2.89 <= 4.2	Experimental value

Volatility (Henry's law constant H)

Value	Method	Temperature	Remark	Determination of value
0 Pa.m ³ / mol	SRC HENRYWIN v3.20	25 ° C		Calculated value

Conclusion

No available (test) data for mobility of ingredients in the mixture

12.5 Results of PBT and vPvB assessment:

Due to insufficient data, it is not possible to indicate whether the component (s) meet the criteria for PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

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Ozone depleting potential (ONP)

Not classified as dangerous for the ozone layer (Regulations (EC) Nos. 1272/2008 and 1005/2009)

bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate

Ozone depleting potential (ONP)

Not classified as dangerous for the ozone layer (Regulations (EC) Nos. 1272/2008 and 1005/2009)

Groundwater

Groundwater polluting

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods:

13.1.1 Waste regulations

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

08 04 10 (Adhesives and sealants, other than those mentioned in 08 04 09). Depending on the type of industry and production process, other EURL codes may also apply. Can be considered as non-hazardous waste according to Directive 2008/98 / EC.

13.1.2 Methods of disposal

Waste is disposed of in accordance with local and / or national regulations. Send to approved treatment facility. Do not discharge into the environment without supervision.

13.1.3 Packing / container

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Waste code packaging (Directive 2008/98 / EC).
15 01 02 (Plastic packaging).

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):

Danger number	
Class	
Classification code	

14.4 Packing group:

Package group	
Labels	

14.5 Environmental hazards:

Label for environmentally	no
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hazardous substances 14.6 Special precautions for user:

Special provisions	
Limited amounts	

Railway (RID)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class (es):

Danger number	
Class	
Classification code	

14.4 Packing group:

Package group	
Labels	

14.5 Environmental hazards:

Label for environmentally	no
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hazardous substances 14.6 Special precautions for user:

Special provisions	
Limited amounts	

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:

Package group	
Labels	

14.5 Environmental hazards:

Label for environmentally	no
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hazardous substances 14.6 Special precautions for user:

Special provisions	
Limited amounts	

Lake (IMDG)

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:

Package group	
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Labels	
14.5 Environmental hazards:	
Marine source of pollution	-
Label for environmentally	no
hazardous substances 14.6 Special precautions for user:	
Special provisions	
Limited amounts	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
Annex II to MARPOL 73/78	

Air (ICAO-TI / IATA-DGR)

14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping name:	
14.3 Transport hazard class (es):	
Class	
14.4 Packing group:	
Package group	
Labels	
14.5 Environmental hazards:	
Label for environmentally	no
hazardous substances 14.6 Special precautions for user:	
Special provisions	
Passenger and freight transport: limited quantities: Max. net number pr. package	

SECTION 15: Regulatory information

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

EU legislation:

Volatile Organic Compound (VOC)
2%

National legislation

- Denmark

MAL code	00-1
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15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out.

SECTION 16: Other information

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

R36 Irritating to eyes
R48 / 22 Harmful: danger of serious damage to health by prolonged ingestion. R38 Irritating to skin. R10 Flammable. R43 May cause sensitization by skin contact. R46 May cause heritable genetic damage. ; may cause long-term adverse effects in the aquatic environment R51 / 53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment R48 / 20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R41 Risk of serious damage to eyes R20 Harmful by inhalation. 53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment R63 Possibility of harm to the baby during pregnancy R50 Very toxic to aquatic organisms R52 Harmful to aquatic organisms R51 Toxic to aquatic organisms R53 May cause long-term adverse effects in the aquatic environment **Full wording of any H-phrases indicated under points 2 and 3:**

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

(*) = INTERNAL COMPANY CLASSIFICATIONS OF BIG

PBT substances = persistent, bioaccumulative and toxic substances

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DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive - Dangerous Preparations Directive
CLP (EU-GHS) Classification, labeling and packaging (Globally Harmonized System in Europe)

The information in this safety data sheet is compiled on the basis of the information and samples BIG has received. The data sheet has been prepared to the best of our ability and in accordance with the knowledge available at the time. The safety data sheet is only a guideline for safe handling, use, consumption, storage, transport and disposal of the substances / preparations / mixtures specified in point 1. New safety data sheets are prepared from time to time. Only the latest version may be used. Older versions must be destroyed. Unless otherwise expressly stated on the safety data sheet, the information does not apply to the substances / preparations / mixtures in purer form, mixed with other substances or in processes.

The safety data sheet is not a quality specification for the substances / preparations / mixtures in question. Compliance with the instructions on this safety data sheet does not relieve the user of the obligation to take all the precautions dictated by common sense and the regulations and recommendations in the field, or which are necessary and / or useful in the light of the specific conditions of use. BIG does not guarantee the accuracy or completeness of the information provided and cannot be held responsible for changes made by third parties. Use of this safety data sheet is limited to the EU, Switzerland, Iceland, Norway and Liechtenstein. All use outside these areas is at your own risk. Use of this safety data sheet is subject to the license terms and limitation terms set forth in your BIG license agreement or, if this is not satisfactory, BIG's general terms and conditions. All intellectual property rights in this data sheet are the property of BIG and distribution and reproduction are limited. See details in the mentioned agreement / the mentioned conditions.

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