

AVIFIX High Tack**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier:**

Product name : AVIFIX High Tack
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture (Organic)

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

Sealing compound

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**

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

Manufacturer of the product

SOUDAL N.V.
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 number:

24h/24h : +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(s) 67/548/EEC and/or 1999/45/EC

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

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

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

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

2.3 Other hazards:**DSD/DPD**

Contains traces of a (possible) fertility impairing substance
Contains traces of a (possible) teratogenic substance

CLP

Contains traces of a (possible) fertility impairing substance
Contains traces of a (possible) teratogenic substance

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SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (Not applicable)	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)	Mono-constituent

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

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:

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, hydrogen chloride, sulphur oxides.

5.3 Advice for firefighters:

5.3.1 Instructions:

No specific fire-fighting instructions required.

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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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:

Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling.

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. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Store in a dry area. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

Synthetic material.

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

Workers

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

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects inhalation	2 mg/kg bw/day	
	Acute systemic effects dermal	5.6 mg/m ³	
	Long-term systemic effects dermal	2 mg/kg bw/day	
	Long-term systemic effects inhalation	5.6 mg/m ³	

General population

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

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	1 mg/kg bw/day	
	Acute systemic effects inhalation	1.4 mg/m ³	
	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/m ³	
	Long-term systemic effects oral	1 mg/kg bw/day	

PNEC

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

Compartments	Value	Remark
Fresh water	0.005 mg/l	
Marine 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	
Soil	1.6 mg/kg soil dw	

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. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

b) Hand protection:

Gloves.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

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	Paste
Odour	Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Literature reports: not easily combustible
Log Kow	No data available
Dynamic viscosity	No data available
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	No data available
Solubility	water ; insoluble organic solvents ; soluble

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Relative density	1.6
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:

Surface tension	No data available
Absolute density	1600 kg/m ³

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, hydrogen chloride, sulphur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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No (test) data on the mixture available

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Equivalent to OECD 423	3700 mg/kg bw	4 h	Rat	Male/female	Experimental value
Dermal	LD50	Equivalent to OECD 402	> 3170 mg/kg bw	24 h	Rat	Male/female	Experimental value
Inhalation (aerosol)	LC50	Equivalent to OECD 403	0.5 mg/l air	4 weeks (daily, 5 days/week)	Rat	Male/female	Experimental value

Classification of the mixture is based on the relevant ingredients of the mixture.

Conclusion

Low acute toxicity by the dermal route

Low acute toxicity by the oral route

Low acute toxicity by the inhalation route

Corrosion/irritation

AVIFIX High Tack

No (test) data on the mixture available

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

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Highly irritating	OECD 405	24 h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404	24 h	24; 48; 72 hours	Rabbit	Experimental value

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Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

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

Respiratory or skin sensitisation

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No (test) data on the mixture available

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

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	OECD 406		24 hours	Guinea pig	Male/female	Experimental value

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Not sensitizing for skin

Specific target organ toxicity

AVIFIX High Tack

No (test) data on the mixture available

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

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	Equivalent to OECD 408	<29 mg/kg bw/day		No effect	13 week(s)	Rat	Female	Experimental value
Oral	LOAEL	Equivalent to OECD 408	29 mg/kg bw/day		Weight reduction	13 week(s)	Rat	Female	Experimental value

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Low sub-chronic toxicity by the oral route

Mutagenicity (in vitro)

AVIFIX High Tack

No (test) data on the mixture available

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

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster lung fibroblasts		Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes		Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (<i>S.typhimurium</i>)		Experimental value

Mutagenicity (in vivo)

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No (test) data on the mixture available

Carcinogenicity

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No (test) data on the mixture available

Reproductive toxicity

AVIFIX High Tack

No (test) data on the mixture available

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

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEL (P/F1)	OECD 415	30 mg/kg bw/day		Rat	Male/female	Weight changes		Experimental value

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion CMR

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

Toxicity other effects

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No (test)data on the mixture available

Conclusion

No (test)data available

11.1.2 Other information

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No (test)data on the mixture available

SECTION 12: Ecological information

12.1 Toxicity:

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No (test)data on the mixture available

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

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

Conclusion

No data available on ecotoxicity

12.2 Persistence and degradability:

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

Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	29 %	28 day(s)	Experimental value
OECD 301B: CO2 Evolution Test	10-24 %	28 day(s)	Experimental value

Phototransformation air (DT50 air)

	Value	Conc. OH-radicals	Value determination
SRC AOP v1.92	2.54 h	500000 molecule/cm ³	Calculated value

Conclusion

Contains non readily biodegradable component(s)

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12.3 Bioaccumulative potential:

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

Log Kow

Method	Value	Temperature	Value determination
	0.35		

Conclusion

No test data of component(s) available

12.4 Mobility in soil:

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

(log) Koc

Parameter	Method	Value	Value determination
Koc	OECD 106	$\geq 780 \leq 16000$	Experimental value
log Koc	OECD 106	$\geq -2.89 \leq 4.2$	Experimental value

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
0 Pa.m ³ /mol	SRC HenryWIN v3.20	25 °C		Calculated value

Conclusion

No (test) data on mobility of the components of the mixture available

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:

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Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

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

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

Ground water

Ground water pollutant

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 2001/118/EC).

08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other EURAL codes may be applicable. 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. Do not discharge unmonitored into the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 02 (plastic packaging).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

Transport	Not subject
UN number	

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
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Class	
Classification code	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	

Rail (RID)

14.1 UN number:	
Transport	Not subject
UN number	
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
14.6 Special precautions for user:	
Special provisions	
Limited quantities	

Inland waterways (ADN)

14.1 UN number:	
Transport	Not subject
UN number	
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
14.6 Special precautions for user:	
Special provisions	
Limited quantities	

Sea (IMDG)

14.1 UN number:	
Transport	Not subject
UN number	
14.2 UN proper shipping name:	
14.3 Transport hazard class(es):	
Class	
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:	

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Annex II of MARPOL 73/78

Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
UN number	

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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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:

Volatile organic compounds (VOC)

2 %

National legislation

- The Netherlands

Waterbezwaarlijkheid (for NL)	1
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 05

- Germany

WGK	1	Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

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

R36 Irritating to eyes

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H319 Causes serious eye irritation.

H411 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)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

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