

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

LAMI-one 0.5 x 125 mm/pre-dried
Article no.: No. 985000

Revised on: 15.05.2023
Version: 4.0 Replaced version: 3.0



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

1.1	Product identifier	LAMI-one 0.5 x 125 mm/pre-dried Article no.: 985000
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Production of dental thermoforming trays
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number	Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers

2.1	Classification of the substance or mixture This substance does not meet the criteria for classification according to Regulation No. 1272/2008/EC.	
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended. not required	
2.2	Labelling elements Additional information:	No additional information is available.
2.3	Other dangers	No additional information is available.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Copolyester CAS-No: 261716-94-4
3.1.1	Dangerous ingredients	No hazardous ingredients

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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	Remove contaminated clothing.
	Inhalation:	Provide fresh air. If symptoms occur or in case of doubt, seek medical advice.
	Eye contact:	Rinse gently with water for a few minutes
	Skin contact:	Wash off/shower skin with water
	Ingestion:	Rinse out mouth. Call a doctor if you feel unwell
4.2	Most important symptoms and effects, both acute and delayed:	No symptoms and effects are known so far
4.3	Indications for immediate medical help or special treatment	
	Dangers:	none
	Treatment:	none

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Not applicable
	Extinguishing agent Suitable extinguishing media	Water in full jet Adjust extinguishing measures to the surroundings Water spray, foam, dry extinguishing powder
	Unsuitable extinguishing media:	Water in full jet
5.2	Special hazards arising from the substance or mixture:	Combustible. May produce toxic carbon monoxide smoke when burned.
5.3	Advice for firefighters Advice for firefighters:	Fight fire with ordinary precautions from a reasonable distance. Ambient Wear self-contained breathing apparatus
	Special protective equipment for fire fighting:	Not applicable

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	No special measures are required.
6.2	Environmental protection measures:	Prevent seepage into drains or surface and ground water

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6.3	Methods and material for retention and cleaning:	Cover the sewage systems. Take up mechanically. In suitable containers for disposal. Ventilate the affected area.
6.4	Reference to other sections:	Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal information: see section 13.

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Avoid dust formation. Avoid: Aerosol or mist formation. Advice on general hygiene at the workplace. Keep away from food, drink and animal feeding stuffs
	Notes on fire and explosion protection:	Store the material in a dry and dark place. Storage temperature max. 30°C.
7.2	Conditions for safe storage taking into account incompatibilities:	Observe storage instructions.
	Storage stability:	Keep in a dry place, use local and general ventilation. Special requirements for storage rooms or containers Recommended storage temperature: 15 - 25 °C.
	Storage class:	(LGK): 11 (combustible solids)
7.3	Specific end uses:	There is no information available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	There are no data available
	Biological limit values	There are no data available
8.2	Exposure controls Suitable engineering controls:	not required
	Individual protective measures, for example personal protective equipment	
	General information:	not required
	Eye/face protection:	Use safety goggles with side protection.
	Skin protection Hand protection:	Wear suitable protective gloves. A chemical protective glove tested according to EN 374 is suitable.
	Other:	Include recovery phases for the regeneration of the skin. Preventive skin protection (protective creams/ointments) is recommended. creams/ointments) is recommended.

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Respiratory protection:	Respiratory protection is required in case of: Dust formation. Particle filter device (EN 143). P1 (filters at least 80 % of air particles, identification color: white).
Hygiene measures:	not required
Limitation and monitoring of environmental exposure:	Prevent seepage into drains or surface and ground water.

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties																																						
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9.2.	<p>Other information</p> <p>Water absorption after 24 h at 23°C: ISO 62 method 1: value - properties: Tensile strength Test method ISO 527 Value: 49 MPa</p> <p>Properties: Flexural strength Test method: ISO 527 Value: 66 MPa</p> <p>Test method: ISO 5256 Value: No breakage</p> <p>Properties: Notched impact strength at 23°C Test method: ISO 179</p> <p style="text-align: right;">Properties: Impact strength at 23°C</p>																																						

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Value: 66 kJ/m ²	Properties: Tensile strength
Test method: ISO 179 Value: No breakage	Properties: Elongation at yield
Test method: ISO 527 Value: 45 MPa	Properties: Yield stress
Test method: ISO 527 Value: 7%	Properties: Elongation at break
Test method: ISO 527 Value: 130%.	Properties: Young's modulus
Test method: ISO 527 Value: 1624 MPa	
Properties: Shore D hardness Test method: DIN 53505 value: 78	
Properties: Rockwell hardness Test method: ISO 2039 (H358/30) Value: 115	
ISO 306 Value: -	Vicat softening temperature
Temperature resistance ISO 75 method A 92°C ISO 75 method B 109°C	
Continuous service temperature ISO 75 Value: -	

SECTION 10: Stability and reactivity

10.1	Reactivity	No additional information is available.
10.2	Chemical stability	No decomposition when used as directed
10.3	Possibility of hazardous reactions	No additional information is available.
10.4	Conditions to avoid	No additional information is available.
10.5	Incompatible materials	No additional information is available.
10.6	Decomposition products	No decomposition when used as directed

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SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008	
	acute toxicity	Is not to be classified as acutely toxic
	Corrosive/irritant effect on the skin	Is not to be classified as skin corrosive/irritant.
	Serious eye damage/irritation	Is not classified as severely eye damaging or eye irritating.
	Sensitisation of the respiratory tract/skin	Is not to be classified as an inhalation or skin allergen.
	Germ cell mutagenicity	Is not classified as germ cell mutagen (mutagenic), carcinogenic or toxic for reproduction
	Carcinogenicity	Is not classified as germ cell mutagen (mutagenic), carcinogenic or toxic for reproduction
	Reproductive toxicity	Is not classified as germ cell mutagenic (mutagen), carcinogenic or toxic for reproduction.
	Specific target organ toxicity at single exposure	Is not to be classified as specific target organ toxic (single exposure).
	Specific target organ toxicity in case of repeated exposure	Is not to be classified as specific target organ toxic (repeated exposure).
Aspiration hazard	Is not to be classified as aspiration hazardous.	
11.2	Information on other hazards	
	there are no data available	
11.2.1	Endocrine disrupting properties	None
11.2.2	Other information	None

SECTION 12. Environmental information

12.1	Toxicity	according to 1272/2008/EC: Is not to be classified as hazardous to the aquatic environment.
12.2	Persistence and degradability	There are no data available.
12.3	Bioaccumulative potential	There are no data available.
12.4	Mobility in soil	There are no data available.
12.5	Results of the PBT and vPvB assessment	There are no data available.
12.6	Endocrine disrupting properties	There are no data available.
12.7	Other adverse effects	No data available

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	For waste disposal, contact the authorized waste disposal company.
	Disposal methods	Do not allow to enter the sewage system. The assignment of waste code numbers/waste designations is to be carried out in accordance with EAKV on an industry and process-specific

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		basis. Waste must be separated in such a way that it can be treated separately by municipal or national waste disposal facilities. Please observe the relevant national or regional regulations.
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SECTION 14: Transport information

14.1	ADR	not applicable
14.2	ADN	not applicable
14.3	RID	not applicable
14.4	IMDG	not applicable
14.5	IATA	not applicable
14.6	Special precautions for the user:	Not applicable.
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not applicable.

SECTION 15: Legislation

15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	none
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	none
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	none
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	none
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	none
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	none
	Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	none
Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	none	

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	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	none
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	none
	National regulations	
	Water hazard class	0 not hazardous to water
	Reference to Technical Rules for Hazardous Substances (TRGS)	none
	VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	none
	Other regulations	none
15.2	Chemical safety assessment	A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	There are no data available.
	Training information:	There are no data available.
	Disclaimer:	More information To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.

Safety Data Sheets

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LAMI-two 1.8 x 125 mm pre-dried
Article no.: No. 985200

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Version: 4.0 Replaced version: 3.0



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

1.1	Product identifier	LAMI-two 1.8 x 125 mm pre-dried Article no.: 985200
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Production of dental thermoforming trays
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number	Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers

2.1	Classification of the substance or mixture This substance does not meet the criteria for classification according to Regulation No. 1272/2008/EC.	
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended. not required	
2.2	Labelling elements Additional information:	No additional information is available.
2.3	Other dangers	No additional information is available.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Thermoplastisches Polyurethan / Polycarbonat (TPU / PC) CAS-Nr: 75701-44-9 (TPU) / 25037-45-0 (PC)
3.1.1	Dangerous ingredients	No hazardous ingredients.

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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	Remove contaminated clothing.
	Inhalation:	Provide fresh air. Seek medical advice if symptoms occur or in case of doubt
	Eye contact:	Rinse gently with water for a few minutes
	Skin contact:	Wash off/shower skin with water
	Ingestion:	Haut mit Wasser abwaschen/abduschen
4.2	Most important symptoms and effects, both acute and delayed:	No symptoms and effects are known so far
4.3	Indications for immediate medical help or special treatment	
	Dangers:	none
	Treatment:	none

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Not applicable
	Extinguishing agent Suitable extinguishing media	Water in full jet Adjust extinguishing measures to the surroundings Water spray, foam, dry extinguishing powder
	Unsuitable extinguishing media:	Water in full jet
5.2	Special hazards arising from the substance or mixture:	Combustible. May produce toxic carbon monoxide smoke when burned
5.3	Advice for firefighters Advice for firefighters:	Fight fire with ordinary precautions from a reasonable distance. Ambient Wear self-contained breathing apparatus.
	Special protective equipment for fire fighting:	Not applicable

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	No special measures are required
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6.2	Environmental protection measures:	Prevent seepage into drains or surface and ground water
6.3	Methods and material for retention and cleaning:	Cover the sewage systems. Take up mechanically. In suitable containers for disposal. Ventilate the affected area
6.4	Reference to other sections:	Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal information: see section 13

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Avoid dust formation. Avoid: Aerosol or mist formation. Advice on general hygiene at the workplace. Keep away from food, drink and animal feed
	Notes on fire and explosion protection:	Store the material in a dry and dark place. Storage temperature max. 30°C.
7.2	Conditions for safe storage taking into account incompatibilities:	Observe storage instructions.
	Storage stability:	Keep in a dry place, use local and general ventilation. Special requirements for storage rooms or containers Recommended storage temperature: 15 - 25 °C
	Storage class:	LGK): 11 (combustible solids)
7.3	Specific end uses:	There is no information available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	There are no data available
	Biological limit values	There are no data available
8.2	Exposure controls Suitable engineering controls:	not required
	Individual protective measures, for example personal protective equipment	
	General information:	not required
	Eye/face protection:	Use safety goggles with side protection.
	Skin protection Hand protection:	Wear suitable protective gloves. A chemical protective glove tested according to EN 374 is suitable.

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Other:	Include recovery phases for the regeneration of the skin. Preventive skin protection (protective creams/ointments) is recommended.
Respiratory protection:	Respiratory protection is required in case of: Dust formation. Particle filter device (EN 143). P1 (filters at least 80 % of air particles, identification color: white).
Hygiene measures:	not required
Limitation and monitoring of environmental exposure:	Prevent seepage into drains or surface and ground water.

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties																																						
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9.2.	<p>Other information</p> <p>Water absorption after 24 h at 23°C: ISO 62 method 1: value (TPU) 0.3%; value (PC) 0.15% Properties: Tensile strength Test method: ISO 527 Value (TPU): 32 MPa; Value (PC):59 MPa</p> <p>Properties: Flexural strength Test method: ISO 178 Value (TPU): -; Value (PC): 100 MPa</p>																																						

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Properties: Impact strength at 23°C
Test method: ISO 179/1eJ
Value (TPU): No break; Value (PC): No break

Properties: Notched impact strength at 23°C
Test method: ISO 180/1A
Value (TPU): No breakage; Value (PC): 80 KJ/m²

Test method: ISO 179
Value (TPU): 43 MPa; Value (PC): 65 MPa

Test method: ISO 527
Value (TPU): 7 MPa; Value (PC): 65 MPa

Test method: ISO 527
Value (TPU): 525 %; Value (PC): >60 %

Properties: Young's modulus
Test method: ISO 527
Value (TPU): 172 MPa; Value (PC): 2400 MPa

Properties: Shore A hardness
Test method: DIN 53505
Value (TPU): 88; Value (PC): -

Properties: Hardness according to Shore D
Test method: DIN 53505
Value (TPU): 33; Value (PC): 88

Properties: Rockwell hardness
Prüfverfahren: ISO 2039-1 (H358/30)
Value (TPU): -; Value (PC): 110
Vicat softening temperature
ISO 306 Method A Value (TPU): 44 °C; Value (PC): -
ISO 306 Method B Value (TPU): 70 °C; Value (PC): 145 °C

Temperature resistance
ISO 75 method A value (TPU): 47 °C; value (PC): 125 °C
ISO 75 method B value (TPU): 86 °C; value (PC): 138 °C
Continuous service temperature
ISO 75 value (TPU): 90 °C; value (PC): 125 °C

Properties: Tensile strength

Properties: Yield stress

Properties: Elongation at break

SECTION 10: Stability and reactivity

10.1	Reactivity	No additional information is available.
10.2	Chemical stability	No decomposition when used as directed
10.3	Possibility of hazardous reactions	No additional information is available.
10.4	Conditions to avoid	No additional information is available.
10.5	Incompatible materials	No additional information is available.
10.6	Decomposition products	No decomposition when used as directed.

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SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008	
	acute toxicity	Is not to be classified as acutely toxic.
	Corrosive/irritant effect on the skin	Is not to be classified as skin corrosive/irritant.
	Serious eye damage/irritation	Is not classified as severely eye damaging or eye irritating.
	Sensitisation of the respiratory tract/skin	Is not to be classified as an inhalation or skin allergen.
	Germ cell mutagenicity	Is not classified as germ cell mutagenic (mutagen), carcinogenic or toxic for reproduction.
	Carcinogenicity	Is not classified as germ cell mutagenic (mutagen), carcinogenic or toxic for reproduction
	Reproductive toxicity	Is not classified as germ cell mutagenic (mutagen), carcinogenic or toxic for reproduction
	Specific target organ toxicity at single exposure	Is not to be classified as specific target organ toxic (single exposure).
	Specific target organ toxicity in case of repeated exposure	Is not to be classified as specific target organ toxic (repeated exposure).
	Aspiration hazard	Is not to be classified as aspiration hazardous.
11.2	Information on other hazards	
	there are no data available	
11.2.1	Endocrine disrupting properties	None
11.2.2	Other information	None

SECTION 12. Environmental information

12.1	Toxicity	according to 1272/2008/EC: Is not to be classified as hazardous to the aquatic environment.
12.2	Persistence and degradability	There are no data available.
12.3	Bioaccumulative potential	There are no data available.
12.4	Mobility in soil	There are no data available.
12.5	Results of the PBT and vPvB assessment	There are no data available.
12.6	Endocrine disrupting properties	There are no data available.
12.7	Other adverse effects	Slightly hazardous to water. (AwSV)

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	For waste disposal, contact the authorized waste disposal company.
	Disposal methods	Do not allow to enter the sewage system. The assignment of waste code numbers/waste designations is to be carried out in accordance with EAKV on an industry and process-specific

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		basis. Waste must be separated in such a way that it can be treated separately by municipal or national waste disposal facilities. Please observe the relevant national or regional regulations.
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SECTION 14: Transport information

14.1	ADR	not applicable
14.2	ADN	not applicable
14.3	RID	Not applicable.
14.4	IMDG	not applicable
14.5	IATA	not applicable
14.6	Special precautions for the user:	not applicable
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not applicable.

SECTION 15: Legislation

15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	none
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	none
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	none
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	none
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	none
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	none
	Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	none
Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	none	

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	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	none
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	none
	National regulations	
	Water hazard class	(WGK): 1 (slightly hazardous to water) - Classification according to Annex 1 (AwSV)
	Reference to Technical Rules for Hazardous Substances (TRGS)	none
	VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	none
	Other regulations	none
15.2	Chemical safety assessment	A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	There are no data available.
	Training information:	There are no data available.
	Disclaimer:	More information To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.

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

1.1	Product identifier	Insulating foil Article no.: 985400
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Production of dental thermoforming trays (placeholder foil)
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number	Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers

2.1	Classification of the substance or mixture	The product has not been classified as dangerous according to the legislation in force
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended.	Not classified
2.2	Labelling elements Additional information:	Not applicable
2.3	Other dangers	Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	High density polyethylene (PE-HD) CAS no: 9002-88-4
3.1.1	Dangerous ingredients	Not subject to declaration

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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	No action should be taken that involves personal risk or has not been adequately trained.
	Inhalation:	Fresh air supply, respiratory care if necessary, heat. Consult a physician if symptoms persist.
	Eye contact:	No special measures required
	Skin contact:	After contact with the melted product, cool quickly with cold water. Do not remove solidified product from skin. Seek medical advice immediately.
	Ingestion:	No special measures required
4.2	Most important symptoms and effects, both acute and delayed:	No special measures required
4.3	Indications for immediate medical help or special treatment	
	Dangers:	This product is not expected to be harmful under normal use and proper personal hygiene.
	Treatment:	Do NOT induce vomiting if swallowed. Administer a glass of water.

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Not applicable
	Extinguishing agent Suitable extinguishing media	CO ₂ , extinguishing powder, foam or water spray. Fight larger fires with water spray or alcohol-resistant foam. fight.
	Unsuitable extinguishing media:	Water full jet
5.2	Special hazards arising from the substance or mixture:	In the event of a fire, the following may be released: Carbon monoxide (CO) Carbon dioxide (CO ₂)
5.3	Advice for firefighters Advice for firefighters:	Wear self-contained breathing apparatus. Wear full protective suit.
	Special protective equipment for fire fighting:	Cool endangered containers with water spray.

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SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Wear protective equipment. Keep unprotected persons away.
6.2	Environmental protection measures:	Do not allow to enter drains/surface waters/groundwater.
6.3	Methods and material for retention and cleaning:	Allow to solidify, pick up mechanically.
6.4	Reference to other sections:	See Section 7 for safe handling information. See Section 8 for information on personal protective equipment. See Section 13 for disposal information.

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Avoid inhalation of vapors and contact with eyes, skin and clothing.
	Notes on fire and explosion protection:	No special measures required.
7.2	Conditions for safe storage taking into account incompatibilities:	Store separately from oxidizing agents.
	Storage stability:	Only use containers that are specifically approved for the product. Protect from heat and direct sunlight. Store between 0 °C and 40 °C in a dry, well-ventilated place.
	Storage class:	Keine besonderen Maßnahmen erforderlich
7.3	Specific end uses:	No special measures required

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	No further information, see section 7.
	Biological limit values	The lists valid at the time of preparation served as a basis
8.2	Exposure controls Suitable engineering controls:	The lists valid at the time of preparation served as a basis
	Individual protective measures, for example personal protective equipment	
	General information:	The usual precautions when handling chemicals must be observed.
	Eye/face protection:	Safety goggles
	Skin protection Hand protection:	Only use chemical protective gloves with a CE marking of category III.

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		Protective gloves according to DIN EN 374-3
		Gloves / heat insulating
Other:		not required
Respiratory protection:		In case of short-term or low exposure use respiratory filter device; in case of intensive or prolonged exposure use self-contained use self-contained breathing apparatus. Filter AX
Hygiene measures:		The usual precautions when handling chemicals must be observed.
Limitation and monitoring of environmental exposure:		not required

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties	
	Parameter	Value
	State of aggregation	Fixed
	Colour	Milky white
	Smell	odorless
	Melting point/freezing point	>90° C
	Boiling point or initial boiling point and boiling range	Not determined.
	Flammability	Not determined.
	Lower explosion limit upper explosion limit	Not determined.
	Flash point	Not determined.
	Ignition temperature	Not determined.
	Decomposition temperature	Not determined.
	pH value	Not determined.
	Kinematic viscosity	Not determined.
	Solubility	Not determined.
	Partition coefficient n-octanol/water (log value)	Not determined.
	Vapour pressure	Not determined.
	Density and/or specific gravity	0,919 g/cm ³
	Relative vapour density	Not determined.
	Particle properties	Not determined.
9.2.	Other information Water absorption after 24 h at 23 °C: <0.1 % Tensile strength: 30 Mpa Elongation at yield: 20 % Yield stress: 9 Mpa Elongation at break:>400 % Young's modulus: <600 Mpa Hardness according to Shore D 45 Rockwell hardness:15 Vicat softening temperature	

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ISO 306 method A 93 °C
ISO 306 method B 45 °C Temperature resistance
ISO 75 method B
41 °C
Continuous service temperature
ISO 75
60-75 °C

SECTION 10: Stability and reactivity

10.1	Reactivity	stable under recommended conditions.
10.2	Chemical stability	No decomposition when used as directed.
10.3	Possibility of hazardous reactions	No dangerous reactions known
10.4	Conditions to avoid	No further relevant information available
10.5	Incompatible materials	No further relevant information available
10.6	Decomposition products	No hazardous decomposition products known

SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008	
	acute toxicity	No hazardous decomposition products known
	Corrosive/irritant effect on the skin	No information available.
	Serious eye damage/irritation	No information available.
	Sensitisation of the respiratory tract/skin	No information available.
	Germ cell mutagenicity	Based on available data, the classification criteria are not met.
	Carcinogenicity	Based on available data, the classification criteria are not met.
	Reproductive toxicity	Based on available data, the classification criteria are not met.
	Specific target organ toxicity at single exposure	Based on available data, the classification criteria are not met.
	Specific target organ toxicity in case of repeated exposure	Based on available data, the classification criteria are not met.
	Aspiration hazard	Based on available data, the classification criteria are not met.
11.2	Information on other hazards	Based on available data, the classification criteria are not met.
11.2.1	Endocrine disrupting properties	Based on available data, the classification criteria are not met.
11.2.2	Other information	No information available..

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SECTION 12. Environmental information

12.1	Toxicity	The components of the product are not classified as dangerous for the environment or the quantities are not relevant. Frequent spills or leakage of larger quantities may have a hazardous or harmful effect on the environment
12.2	Persistence and degradability	No further relevant information available
12.3	Bioaccumulative potential	No further relevant information available
12.4	Mobility in soil	No further relevant information available
12.5	Results of the PBT and vPvB assessment	PBT: Not applicable. vPvB: Not applicable.
12.6	Endocrine disrupting properties	No further relevant information available.
12.7	Other adverse effects	No further relevant information available.

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Observe the locally applicable regulations. Must be fed to a hazardous waste incineration plant approved for this purpose after pretreatment in compliance with the hazardous waste regulations.
	Disposal methods	Dispose of in accordance with official regulations.

SECTION 14: Transport information

14.1	ADR	not applicable
14.2	ADN	not applicable
14.3	RID	not applicable
14.4	IMDG	not applicable
14.5	IATA	not applicable
14.6	Special precautions for the user:	Not applicable.
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not applicable.

SECTION 15: Legislation

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15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	none
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	none
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	none
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	none
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	none
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	none
	Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	none
	Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	none
	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	none
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	none
	National regulations	
Water hazard class	WGK 1 (self-classification): slightly hazardous for water	
Reference to Technical Rules for Hazardous Substances (TRGS)	none	
VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	none	
Other regulations	none	
15.2	Chemical safety assessment	A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	There are no data available.

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	Training information:	There are no data available.
	Disclaimer:	More information To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.

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Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

adhesion agent cloth for the Lamitec procedure
Article no.: No. 985600

Revised on: 15.05.2023
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SECTION 1: Identification of the substance or mixture and of the company/undertaking	
1.1	Product identifier adhesion agent cloth for the Lamitec procedure Article no.: 985600
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended
1.2.1	Relevant uses medical device: Of Adhesion Agent Cloth
1.2.2	Uses that are not recommended: None known
1.3	Details of the supplier providing the safety data sheet Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers	
2.1	Classification of the substance or mixture The product is not classified as dangerous according to CLP Regulation (EC) No 1272/2008.
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended. None
2.2	Labelling elements Additional information: Non-applicable
2.3	Other dangers Non-applicable

SECTION 3: Composition / Information on ingredients	
3.1	Chemical characterisation Aqueous mixture of chemical products for cleaning agents
3.1.1	Dangerous ingredients None of the substances contained in the mixture is above the levels specified in Annex II of Regulation (EC) No 1907/2006

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adhesion agent cloth for the Lamitec procedure
Article no.: No. 985600

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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	Consult a doctor in case of discomfort with this Safety data Sheet.
	Inhalation:	In case of symptoms, move the person affected into fresh air.
	Eye contact:	Rinse with water until the product has been eliminated. In case of problems, consult a doctor with the SDS of this product.
	Skin contact:	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet
	Ingestion:	In case of consumption in large quantities, it is recommended to seek medical assistance.
4.2	Most important symptoms and effects, both acute and delayed:	Acute and delayed effects are indicated in sections 2 and 11.
4.3	Indications for immediate medical help or special treatment	
	Dangers:	Acute and delayed effects are indicated in sections 2 and 11.
	Treatment:	Non-applicable

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Product is non-flammable, low risk of fire by the inflammability characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)
	Extinguishing agent Suitable extinguishing media	Can be used any type of extinguishing agent (ABC powder, water,...)
	Unsuitable extinguishing media:	Not applicable
5.2	Special hazards arising from the substance or mixture:	Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.
5.3	Advice for firefighters Advice for firefighters:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

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	Special protective equipment for fire fighting:	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.
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SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Isolate leaks provided that there is no additional risk for the people performing this task.
6.2	Environmental protection measures:	This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.
6.3	Methods and material for retention and cleaning:	It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.
6.4	Reference to other sections:	See sections 8 and 13.

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Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.
	Notes on fire and explosion protection:	Technical measures for storage 30 °C Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5 B.-
7.2	Conditions for safe storage taking into account incompatibilities:	It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2
	Storage stability:	It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.
	Storage class:	No special measures required
7.3	Specific end uses:	Do not eat or drink during the process, washing hands afterwards with suitable cleaning products. Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	Substances whose occupational exposure limits have to be monitored in the work environment 8.1 Control parameters: Non-applicable DNEL (Workers): There are no occupational exposure limits for the substances contained in the product Non-applicable DNEL (General population):
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		Non-applicable
	Biological limit values	There are no occupational exposure limits for the substances contained in the product.
8.2	Exposure controls Suitable engineering controls:	There are no occupational exposure limits for the substances contained in the product.
	Individual protective measures, for example personal protective equipment	
	General information:	As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.
	Eye/face protection:	Not applicable
	Skin protection Hand protection:	Not applicable
	Other:	Not applicable
	Respiratory protection:	Use of protective equipment is required if mist is formed or occupational exposure limits are exceeded.
	Hygiene measures:	Not applicable
	Limitation and monitoring of environmental exposure:	In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics: V.O.C. (Supply): 5.11 % weight V.O.C. density at 20 °C: 51.88 kg/m ³ (51.88 g/L) Average carbon number: 2.11 Average molecular weight: 47.6 g/mol

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties	
	Parameter	Value

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State of aggregation	Liquid
Colour	Colourless
Smell	Alcohol
Melting point/freezing point	Nicht zutreffend
Boiling point or initial boiling point and boiling range	99 °C
Flammability	Non-applicable
Lower explosion limit upper explosion limit	Non-applicable
Flash point	Non-applicable
Ignition temperature	Non-applicable
Decomposition temperature	Non-applicable
pH value	Non-applicable
Kinematic viscosity	Non-applicable
Solubility	Non-applicable
Partition coefficient n-octanol/water (log value)	Non-applicable
Vapour pressure	12745 Pa (13 kPa)
Density and/or specific gravity	1016
Relative vapour density	Non-applicable
Particle properties	Non-applicable
9.2. Other information Evaporation rate at 20 °C: 1016 kg/m ³ Boiling point at atmospheric pressure: 2433 Pa Surface tension at 20 °C: Refractive index: Non-flammable (>60 °C) 399 °C	

SECTION 10: Stability and reactivity

10.1	Reactivity	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
10.2	Chemical stability	Chemically stable under the conditions of storage, handling and use.
10.3	Possibility of hazardous reactions	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
10.4	Conditions to avoid	Non-applicable
10.5	Incompatible materials	Avoid strong acids Avoid alkalis or strong bases
10.6	Decomposition products	See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO ₂), carbon monoxide and other organic compounds.

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SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008	
	acute toxicity	LD50 oral > 2000 mg/kg (rat)
	Corrosive/irritant effect on the skin	Based on available data, the classification criteria are not met
	Serious eye damage/irritation	Based on available data, the classification criteria are not met
	Sensitisation of the respiratory tract/skin	Based on available data, the classification criteria are not met
	Germ cell mutagenicity	Based on available data, the classification criteria are not met
	Carcinogenicity	Based on available data, the classification criteria are not met
	Reproductive toxicity	Based on available data, the classification criteria are not met
	Specific target organ toxicity at single exposure	Based on available data, the classification criteria are not met
	Specific target organ toxicity in case of repeated exposure	Based on available data, the classification criteria are not met
	Aspiration hazard	Based on available data, the classification criteria are not met
11.2	Information on other hazards	
	Based on available data, the classification criteria are not met	
11.2.1	Endocrine disrupting properties	
	Based on available data, the classification criteria are not met	
11.2.2	Other information	
	Non-applicable	

SECTION 12. Environmental information

12.1	Toxicity	Not available
12.2	Persistence and degradability	Not available
12.3	Bioaccumulative potential	Not available
12.4	Mobility in soil	Not available
12.5	Results of the PBT and vPvB assessment	Not available
12.6	Endocrine disrupting properties	Not described
12.7	Other adverse effects	Not available

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Non-applicable

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Disposal methods	<p>Waste management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue.</p> <p>We do not recommend disposal down the drain. See paragraph 6.2 Regulations related to waste management: In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated. Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014</p>
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SECTION 14: Transport information

14.1	ADR	No dangerous goods
14.2	ADN	No dangerous goods
14.3	RID	No dangerous goods
14.4	IMDG	No dangerous goods
14.5	IATA	No dangerous goods
14.6	Special precautions for the user:	No dangerous goods
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not applicable

SECTION 15: Legislation

15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	Not applicable
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	Not applicable
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	Not applicable
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	Not applicable
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	Not applicable
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	Not applicable
Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	Not applicable	

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Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	Not applicable
Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	Not applicable
REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	Not applicable
Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	Not applicable
National regulations	
Water hazard class	none
Reference to Technical Rules for Hazardous Substances (TRGS)	Not Applicable
VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	Not Applicable
Other regulations	Member States and shall be submitted to them upon direct request or upon request of a detergent manufacturer. Council of 30 November 2009 on cosmetic products. - Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents - Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents as regards the adaptation of Annexes III and VII - Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in order to adapt its Annexes V and VI (derogation for

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		surfactants)
15.2	Chemical safety assessment	The supplier has not performed a chemical safety assessment.

SECTION 16: Other information

16.1	Information on the revision	Not applicable
	Important literature references and data sources:	<p>CLP Regulation (EC) n° 1272/2008:</p> <p>The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the</p> <p>individual components which appear in section 3</p> <p>Texts of the legislative phrases mentioned in section 3: ADR: European agreement concerning the international carriage of dangerous goods by road</p> <p>IMDG: International maritime dangerous goods code</p> <p>IATA: International Air Transport Association</p> <p>ICAO: International Civil Aviation Organisation</p> <p>COD: Chemical Oxygen Demand</p> <p>BOD5: 5-day biochemical oxygen demand</p> <p>BCF: Bioconcentration factor</p> <p>LD50: Lethal Dose 50</p> <p>CL50: Lethal Concentration 50</p> <p>EC50: Effective concentration 50</p> <p>Log-POW: Octanol–water partition coefficient</p> <p>Koc: Partition coefficient of organic carbon</p> <p>Abbreviations and acronyms:</p> <p>http://esis.jrc.ec.europa.eu</p> <p>http://echa.europa.eu</p> <p>http://eur-lex.europa.eu</p>

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	Training information:	Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension
	Disclaimer:	and interpretation of this safety data sheet, as well as the label on the product. More information To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.