

Safety Data Sheets

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

LAMI-one 0.75 x 125 mm/pre-dried
Article no.: No. 985100

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 0.75 x 125 mm/pre-dried Article no.: 985100
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: 261716-94-3
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

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	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

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

LAMI-two 1.8 x 125 mm pre-dried
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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: 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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Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Insulating foil
Article no.: No. 985400

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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	CO2, 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 (CO2)
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																																						
	<table border="1"><thead><tr><th>Parameter</th><th>Value</th></tr></thead><tbody><tr><td>State of aggregation</td><td>Fixed</td></tr><tr><td>Colour</td><td>Milky white</td></tr><tr><td>Smell</td><td>odorless</td></tr><tr><td>Melting point/freezing point</td><td>>90° C</td></tr><tr><td>Boiling point or initial boiling point and boiling range</td><td>Not determined.</td></tr><tr><td>Flammability</td><td>Not determined.</td></tr><tr><td>Lower explosion limit upper explosion limit</td><td>Not determined.</td></tr><tr><td>Flash point</td><td>Not determined.</td></tr><tr><td>Ignition temperature</td><td>Not determined.</td></tr><tr><td>Decomposition temperature</td><td>Not determined.</td></tr><tr><td>pH value</td><td>Not determined.</td></tr><tr><td>Kinematic viscosity</td><td>Not determined.</td></tr><tr><td>Solubility</td><td>Not determined.</td></tr><tr><td>Partition coefficient n-octanol/water (log value)</td><td>Not determined.</td></tr><tr><td>Vapour pressure</td><td>Not determined.</td></tr><tr><td>Density and/or specific gravity</td><td>0,919 g/cm³</td></tr><tr><td>Relative vapour density</td><td>Not determined.</td></tr><tr><td>Particle properties</td><td>Not determined.</td></tr></tbody></table>	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.
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Colour	Milky white																																						
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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

Safety Data Sheets

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

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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.

Safety Data Sheets

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

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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.

Safety Data Sheets

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

Steady-Resin S + M Monomer

Article no.: No. 98115

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	Steady-Resin S + M Monomer Article no.:98115
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 products
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 Hazard Categories: Flammable Liquids: Flamm. Fl. 2 Skin corrosion/irritation: Skin Irrit. 2 Respiratory/skin sensitization: Sens. Skin 1 Specific target organ toxicity (single exposure): STOT inc. 3 Hazard statements: Highly flammable liquid and vapor. Causes skin irritation. May cause allergic skin reactions. May cause respiratory irritation.	
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended. Hazard Categories: Flammable Liquids: Flamm. Fl. 2 Skin corrosion/irritation: Skin Irrit. 2 Respiratory/skin sensitization: Sens. Skin 1 Specific target organ toxicity (single exposure): STOT inc. 3 Hazard statements: Highly flammable liquid and vapor. Causes skin irritation. May cause allergic skin reactions. May cause respiratory irritation.	
2.2	Labelling elements Additional information:	Signal word Danger - Pictograms

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



Steady-Resin S + M Monomer

Article no.: No. 98115

Revised on: 15.05.2023

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		<p>GHS02, GHS07</p>   <p>Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H317 May cause allergic skin reactions. H335 May cause respiratory irritation.</p> <p>Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. P261 Avoid breathing dust/fume/gas/mist/vapor/aerosol. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Remove contaminated clothing and wash before reuse. P370+P378 In case of fire: Use carbon dioxide (CO2), foam or extinguishing powder to extinguish. P403+P235 Keep in a well-ventilated place. Keep cool. P501 Dispose of contents/container as hazardous waste in accordance with local and national legislation. Dispose of to appropriate, licensed combustible organic waste incinerator.</p>
2.3	Other dangers	There is no information available.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Methylmethacrylat 1,4-Butandioldimethacrylat																																																			
3.1.1	Dangerous ingredients	<p>Wording of H- and EUH-phrases: see section 16</p> <table border="1"> <thead> <tr> <th>CAS-Nr.</th> <th>Designation</th> <th>Share</th> </tr> </thead> <tbody> <tr> <td></td> <td>EG-Nr. Index-NR. Reach_Nr.</td> <td></td> </tr> <tr> <td></td> <td>GHS- Classification</td> <td></td> </tr> <tr> <td>80-62-6</td> <td>Methylmethacrylat</td> <td>90 - < 95 %</td> </tr> <tr> <td></td> <td>201-297-1 01-2119452498-28</td> <td></td> </tr> <tr> <td></td> <td>Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335</td> <td></td> </tr> <tr> <td>2082-81-7</td> <td>1,4-Butandioldimethacrylat</td> <td>5 - < 10 %</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>CAS-Nr.</th> <th>EG-Nr.</th> <th>Designation</th> <th>Share</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>Specific concentration limits, M-factors and ATE</td> <td></td> </tr> <tr> <td>80-62-6</td> <td>201-297-1</td> <td>Methylmethacrylat</td> <td>90 - < 95 %</td> </tr> <tr> <td></td> <td></td> <td>inhalative: LC50 = 29,8 mg/l (Dämpfe); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg</td> <td></td> </tr> <tr> <td>2082-81-7</td> <td>218-218-1</td> <td>1,4-Butandioldimethacrylat</td> <td>5 - < 10 %</td> </tr> <tr> <td></td> <td></td> <td>dermal: LD50 = > 3000 mg/kg; oral: LD50 = >10000 mg kg</td> <td></td> </tr> </tbody> </table>	CAS-Nr.	Designation	Share		EG-Nr. Index-NR. Reach_Nr.			GHS- Classification		80-62-6	Methylmethacrylat	90 - < 95 %		201-297-1 01-2119452498-28			Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335		2082-81-7	1,4-Butandioldimethacrylat	5 - < 10 %							CAS-Nr.	EG-Nr.	Designation	Share			Specific concentration limits, M-factors and ATE		80-62-6	201-297-1	Methylmethacrylat	90 - < 95 %			inhalative: LC50 = 29,8 mg/l (Dämpfe); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg		2082-81-7	218-218-1	1,4-Butandioldimethacrylat	5 - < 10 %			dermal: LD50 = > 3000 mg/kg; oral: LD50 = >10000 mg kg	
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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	Immediately remove soiled, saturated clothing. In case of skin irritation or rash: Seek medical advice / seek medical attention. If eye irritation persists: Get medical advice / attention.
	Inhalation:	Provide fresh air. In all cases of doubt or if symptoms are present, seek medical advice.
	Eye contact:	In case of eye contact, rinse eyes with water for a sufficient time with eyelids open, then consult an ophthalmologist immediately
	Skin contact:	In case of contact with skin, wash off immediately with polyethylene glycol, then with plenty of water. Immediately remove all contaminated clothing and wash before reapplication. Medical treatment necessary
	Ingestion:	In case of vomiting, observe risk of aspiration. Rinse out mouth immediately and drink plenty of water. and drink plenty of water.
4.2	Most important symptoms and effects, both acute and delayed:	Causes skin irritation. May cause respiratory irritation. May cause allergic skin reactions.
4.3	Indications for immediate medical help or special treatment	
	Dangers:	There is no information available
	Treatment:	Symptomatic treatment

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Use water spray to protect personnel and to cool containers in the hazardous area.
	Extinguishing agent	
	Suitable extinguishing media	CO ₂ , sand, extinguishing powder. Do not use water.
	Unsuitable extinguishing media:	Water in full jet
5.2	Special hazards arising from the substance or mixture:	Flammable. Vapors may form explosive mixtures with air.
5.3	Advice for firefighters	Wear self-contained breathing apparatus and chemical protective suit. Full protective suit.
	Special protective equipment for fire fighting:	Use water spray to protect persons and to cool containers in the danger zone. Knock down gases/vapors/mist with water spray jet. Collect contaminated extinguishing water separately. Do not allow Do not allow to enter sewage system or water.

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SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
6.2	Environmental protection measures:	Do not allow uncontrolled release of product into the environment. Explosion hazard
6.3	Methods and material for retention and cleaning:	Absorb with liquid-binding material (sand, diatomaceous earth; acid binders, universal binders). Treat the absorbed material according to section Disposal.
6.4	Reference to other sections:	Safe handling: see section 7 Personal protective equipment: see section 8 Disposal: see section 13

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	In case of open handling, use equipment with local exhaust ventilation. Do not inhale gas/fume/vapor/aerosol.
	Notes on fire and explosion protection:	Keep away from sources of ignition - do not smoke. Take measures against electrostatic charges. Vapors may form explosive form explosive mixtures with air.
7.2	Conditions for safe storage taking into account incompatibilities:	Keep container tightly closed. Keep container in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smok
	Storage stability:	Information on storage in one common storage facility Do not store together with: Oxidizing agents, pyrophors or self-heating hazardous substances.
	Storage class:	Storage class according to TRGS 510: 3 (Flammable liquids)
7.3	Specific end uses:	Production of orthodontic appliances.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	
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Occupational exposure limits (TRGS 900)

CAS-Nr.	Designation	ppm	mg/m ³	F/m ³	Peak limiting value	Art.
80-62-6	Methyl-methacrylat	50	210		2(l)	

DNEL/DMEL values

CAS-Nr.	Designation	Exposure route	Effect	Value
80-62-6	Methylmethacrylat			
	Worker DNEL, long-term	inhalativ		208 mg/m ³
	Worker DNEL, long-term	dermal		17 mg/kg KG/d

Biological limit values

none

8.2

Exposure controls Suitable engineering controls:

In case of open handling, use equipment with local exhaust ventilation. Do not inhale gas/fume/vapor/aerosol.

Individual protective measures, for example personal protective equipment

General information:

Immediately remove soiled, saturated clothing. Draw up and follow the skin protection plan! Before breaks and at the end of

Wash hands and face thoroughly before breaks and at the end of work, shower if necessary. Do not eat or drink while working

Eye/face protection:

Wear eye/face protection.

Skin protection Hand protection:

Wear suitable protective gloves.

For protection against splashes: butyl; EN 374.

For protection against immersion: Butyl; 0.7 mm or thicker, EN 373.

The suitability of gloves should be agreed with the manufacturer. In case of contamination or if breakthrough time

is exceeded, change gloves. Resistance of glove material: see information of the

glove manufacturer.

Other:

Flame retardant clothing. Wear antistatic shoes and work clothes

Respiratory protection:

Wear appropriate respiratory protection if technical measures are inadequate or not available and exposure is expected to be

is expected to exceed the DNEL (derived exposure level below which the substance will not cause adverse effects to human health).

health). A suitable respiratory mask with filter type A (EN 141 or EN 405) is recommended. In case of

formation of particularly high vapor concentrations, self-contained breathing apparatus may be necessary.

Hygiene measures:

not required

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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.	Other information Partition coefficient: 1.38 Dyn. viscosity: (at 20 °C) 0.63 mPa*s Solid content: not determined																																						

SECTION 10: Stability and reactivity

10.1	Reactivity	Flammable, risk of ignition
10.2	Chemical stability	The product is stable when stored at normal ambient temperatures.
10.3	Possibility of hazardous reactions	Can polymerize exothermically when heated, exposed to light and air, or with the addition of free radical initiators.
10.4	Conditions to avoid	Keep away from heat sources (e.g. hot surfaces), sparks and open flames. May polymerize exothermically on heating, exposure to light and exposure to light and air or when free radical initiators are added. Protect from direct sunlight.

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		direct sunlight.
10.5	Incompatible materials	In the presence of free radical formers (e.g. peroxides), reducing substances and/or heavy metal ions, polymerization is under heat generation is possible.
10.6	Decomposition products	No hazardous decomposition products are known. In the presence of free radical formers (e.g. peroxides), reducing substances and/or heavy metal ions, polymerization with heat generation is possible.

SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008																																											
	acute toxicity	Based on available data, the classification criteria are not met.																																										
	<table border="1"><thead><tr><th>CAS-Nr.</th><th>Designation</th><th>Exposure routes</th><th>Method</th><th>Dose</th><th>Species</th><th>Source</th></tr></thead><tbody><tr><td>80-62-6</td><td>Methylmethacrylat</td><td>oral</td><td>LD50</td><td>>5000mg/kg</td><td>Rat</td><td>OECD 401</td></tr><tr><td></td><td></td><td>dermal</td><td>LD50</td><td>>5000 mg/kg</td><td>Rabbit</td><td></td></tr><tr><td></td><td></td><td>Inhalative vapor</td><td>LC50</td><td>29,8 mg/l</td><td>Rat</td><td></td></tr><tr><td>2082-81-7</td><td>1,4-Butandiol dimethacrylat</td><td>oral</td><td>LD50</td><td>>10000 mg/kg</td><td>Rat</td><td></td></tr><tr><td></td><td></td><td>dermal</td><td>LD50</td><td>>3000 mg/kg</td><td>Rabbit</td><td></td></tr></tbody></table>		CAS-Nr.	Designation	Exposure routes	Method	Dose	Species	Source	80-62-6	Methylmethacrylat	oral	LD50	>5000mg/kg	Rat	OECD 401			dermal	LD50	>5000 mg/kg	Rabbit				Inhalative vapor	LC50	29,8 mg/l	Rat		2082-81-7	1,4-Butandiol dimethacrylat	oral	LD50	>10000 mg/kg	Rat				dermal	LD50	>3000 mg/kg	Rabbit	
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			dermal	LD50	>3000 mg/kg	Rabbit																																						
	Corrosive/irritant effect on the skin	Causes skin irritation.																																										
Serious eye damage/irritation	Based on available data, the classification criteria are not met.																																											
Sensitisation of the respiratory tract/skin	May cause allergic skin reactions. (Methyl methacrylate, 1,4-butanediol dimethacrylate) May cause respiratory irritation. (Methyl methacrylate)																																											
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	The mixture is classified as dangerous according to Directive 1999/45/EC.																																										

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SECTION 12. Environmental information

12.1	Toxicity	The product is not: Ecotoxic																																																																						
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12.2	Persistence and degradability	The product was not tested																																																																						
12.3	Bioaccumulative potential	There is no information available																																																																						
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2082-81-7	1,4-Butandiol dimethacrylat	3,1																																																																						
12.4	Mobility in soil	The product was not tested.																																																																						
12.5	Results of the PBT and vPvB assessment	The product was not tested																																																																						
12.6	Endocrine disrupting properties	There is no information available																																																																						
12.7	Other adverse effects	Avoid release into the environment..																																																																						

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Do not allow to enter drains or water courses. Dispose of in accordance with official regulations.
	Disposal methods	Wash off with plenty of water. Completely emptied packaging can be recycled.

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SECTION 14: Transport information

14.1 ADR

Other relevant information on land transport

UN number	UN 1247
Proper shipping name UN Shipping Name:	METHYLMETHACRYLAT, MONOMER, STABILISIERT
Transport hazard classes:	3
Packing group	II
Hazard label:	3 
Classification Code:	F1
Limited Quantity (LQ):	1 L
Transport category:	2
Hazard number:	339
Tunnel Restriction Code:	D/E

Quantity exempted: E2


SAPT: > 60 °C

14.2 ADN

Other relevant information on inland waterway transport


Quantity exempted: E2

SAPT: > 60 °C

UN number	UN 1247
Proper shipping name UN Shipping Name:	METHYLMETHACRYLAT, MONOMER, STABILISIERT
Transport hazard classes:	3
Packing group	II
Hazard label:	3 
Classification Code:	F1
Limited Quantity (LQ):	1 L

14.3 RID

There is no information available.

UN number	UN 1247
Proper shipping name UN Shipping Name:	METHYLMETHACRYLAT, MONOMER, STABILISIERT
Transport hazard classes:	3
Packing group	II
Hazard label:	3 
Classification Code:	F1
Limited Quantity (LQ):	1 L
Transport category:	2
Hazard number:	339
Tunnel Restriction Code:	D/E

14.4 IMDG

Other relevant information for sea transport

Exempted quantity: E2

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

Steady-Resin S + M Monomer

Article no.: No. 98115

Revised on: 15.05.2023

Version: 4.0 Replaced version:3.0



		<p>SAPT: > 60 °C</p> <table border="1"> <tr> <td>UN number</td> <td>UN 1247</td> </tr> <tr> <td>Proper shipping name UN Shipping Name:</td> <td>METHYL METHACRYLATE, MONOMER, STABILIZED</td> </tr> <tr> <td>Transport hazard classes:</td> <td>3</td> </tr> <tr> <td>Packing group</td> <td>II</td> </tr> <tr> <td>Hazard label:</td> <td>3 </td> </tr> <tr> <td>Special provisions:</td> <td>-</td> </tr> <tr> <td>Limited Quantity (LQ):</td> <td>1 L</td> </tr> <tr> <td>EmS:</td> <td>F-E, S-D</td> </tr> </table>	UN number	UN 1247	Proper shipping name UN Shipping Name:	METHYL METHACRYLATE, MONOMER, STABILIZED	Transport hazard classes:	3	Packing group	II	Hazard label:	3 	Special provisions:	-	Limited Quantity (LQ):	1 L	EmS:	F-E, S-D				
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EmS:	F-E, S-D																					
14.5	ICAO	<p>Other relevant information on air transport</p> <p>Exempted quantity: E2</p> <p>Passenger LQ: Y341</p> <p>SAPT: > 60 °C</p> <table border="1"> <tr> <td>UN number</td> <td>UN 1247</td> </tr> <tr> <td>Proper shipping name UN Shipping Name:</td> <td>METHYL METHACRYLATE, MONOMER, STABILIZED</td> </tr> <tr> <td>Transport hazard classes:</td> <td>3</td> </tr> <tr> <td>Packing group</td> <td>II</td> </tr> <tr> <td>Hazard label:</td> <td>3 </td> </tr> <tr> <td>Limited Quantity (LQ):</td> <td>1 L</td> </tr> <tr> <td>IATA Packing Instructions - Passenger:</td> <td>353</td> </tr> <tr> <td>IATA Maximum Quantity - Passenger:</td> <td>5 L</td> </tr> <tr> <td>IATA packing instruction - Cargo:</td> <td>364</td> </tr> <tr> <td>IATA Maximum Quantity - Cargo:</td> <td>60 L</td> </tr> </table>	UN number	UN 1247	Proper shipping name UN Shipping Name:	METHYL METHACRYLATE, MONOMER, STABILIZED	Transport hazard classes:	3	Packing group	II	Hazard label:	3 	Limited Quantity (LQ):	1 L	IATA Packing Instructions - Passenger:	353	IATA Maximum Quantity - Passenger:	5 L	IATA packing instruction - Cargo:	364	IATA Maximum Quantity - Cargo:	60 L
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IATA Maximum Quantity - Cargo:	60 L																					
14.6	Special precautions for the user:	There is no information available.																				
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:	There is no information available.
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	There is no information available.
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	There is no information available.

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	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	There is no information available.
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	There is no information available.
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	There is no information available.
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	There is no information available.
	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:	There is no information available.
	Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	P5c FLAMMABLE LIQUIDS
	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	There is no information available.
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	There is no information available.
	National regulations	
	Water hazard class	2 - clearly hazardous to water
	Reference to Technical Rules for Hazardous Substances (TRGS)	There is no information available.
	VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	There is no information available.
	Other regulations	Information on IE Directive 2010/75/EU (VOC): 90 % (846 g/l) Information on VOC Directive 2004/42/EC: 90 % (846 g/l) Employment restriction: Observe employment restrictions for young people (§ 22 JArbSchG) Status: Classification of mixtures according to anlage 1, Nr. 5 AwSV Skin absorption / sensitization: Triggers hypersensitivity reactions of allergic type.
15.2	Chemical safety assessment	Chemical safety assessments for substances in this mixture have not been performed.

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
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Important literature references and data sources:	<p>Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service</p> <p>LC50: Lethal concentration, 50</p> <p>LD50: Lethal dose, 50</p> <p>Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].</p> <p>Classification Classification method</p> <p>Flam. Liq. 2; H225 Based on test data</p> <p>Skin Irrit. 2; H315 Calculation method</p> <p>Skin Sens. 1; H317 Calculation method</p> <p>STOT SE 3; H335 Calculation method</p> <p>Wording of H and EUH phrases (number and full text)</p> <p>H225 Highly flammable liquid and vapor.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause allergic skin reactions.</p> <p>H335 May cause respiratory irritation</p>
Training information:	There are no data available.
Disclaimer:	<p>More information</p> <p>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,</p>

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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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Steady-Resin S + M Polymer
Article no.: No. 98116

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

1.1	Product identifier	Steady-Resin S + M Polymer Article no.: 98116
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Orthodontic resin, autopolymer, powder components of the 2-component acrylic resin system for the production of orthodontic appliances
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 Hazard Categories: Hazardous to the aquatic environment: Aqu. Chron. 3 Hazard statements: Harmful to aquatic organisms, with long lasting effects.	
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended. Hazard statements H412 Harmful to aquatic life with long lasting effects.	
2.2	Labelling elements Additional information:	Safety advice P273 Avoid release to the environment. P501 Dispose of contents/container as hazardous waste to appropriate licensed combustible organic waste incinerator in accordance with local and national legislation. Dispose of to appropriate approved incinerator for combustible organic waste. Special labelling of certain mixtures EUH208 Contains dibenzoyl peroxide; benzoyl peroxide. May cause allergic reaction
2.3	Other dangers	Contains methyl methacrylate, dibenzoyl peroxide. May cause allergic reactions.

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SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Mixture based on polymethyl methacrylates and catalyst
3.1.1	Dangerous ingredients	CAS No. 9011-14-7 Designation: acrylic polymer Proportion: 95 - <= 100 % CAS No. 94-36-0 Designation :dibenzoyl peroxide; benzoyl peroxide EC No. 202-327-6 Reach No. 01-2119511472-50 GHS Classification Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410 Proportion: < 1 % Wording of H- and EUH-phrases: see section 16

Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	First aider must protect himself. Remove the affected person from the danger zone. If you feel unwell, seek medical advice
	Inhalation:	Provide fresh air.
	Eye contact:	Wash off with plenty of water. Remove contaminated clothing and wash before wearing again. wash before wearing again.
	Skin contact:	Immediately rinse carefully and thoroughly with eye wash or with water.
	Ingestion:	Rinse mouth immediately and drink plenty of water.
4.2	Most important symptoms and effects, both acute and delayed:	There is no information available.
4.3	Indications for immediate medical help or special treatment	
	Dangers:	There is no information available.
	Treatment:	Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Use water spray to protect personnel and to cool containers in the hazardous area.
	Extinguishing agent Suitable extinguishing media	Adapt extinguishing measures to the surroundings. Foam, extinguishing powder, carbon dioxide
	Unsuitable extinguishing media:	Water in full jet

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5.2	Special hazards arising from the substance or mixture:	In case of fire, the following can be released: Carbon monoxide, carbon dioxide, organic decomposition products.
5.3	Advice for firefighters Advice for firefighters:	In case of fire: Wear self-contained breathing apparatus.
	Special protective equipment for fire fighting:	Collect contaminated extinguishing water separately. Do not allow to enter drains or bodies of water.

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Avoid dust formation. Do not inhale dust.
6.2	Environmental protection measures:	Do not allow to enter drains or water courses
6.3	Methods and material for retention and cleaning:	Pick up mechanically. Treat the picked up material according to section Disposal.
6.4	Reference to other sections:	Safe handling: see section 7 Personal protective equipment: see section 8 Disposal: see section 13

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	No special precautions required.
	Notes on fire and explosion protection:	No special fire protection measures required.
7.2	Conditions for safe storage taking into account incompatibilities:	Requirements for storage rooms and containers Keep containers tightly closed
	Storage stability:	No special precautions required
	Storage class:	Lager class according to TRGS 510: 11 (Combustible solids that cannot be assigned to any of the above LGK)
7.3	Specific end uses:	Production of dental products

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	Occupational exposure limits (TRGS 900) CAS No. 94-36-0 Designation: Dibenzoyl peroxide mg/m ³ : 5 E Peak limit 1 (l)
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	Biological limit values	none
8.2	Exposure controls Suitable engineering controls:	none
	Individual protective measures, for example personal protective equipment	
	General information:	not required
	Eye/face protection:	Wear eye/face protection.
	Skin protection Hand protection:	Material: Protective gloves against mechanical risks according to EN 388. Additional information: Protective gloves should be changed regularly, especially after intensive contact with the product. Gloves must be removed and replaced when they show signs of wear or chemical breakage. chemical leakage. An appropriate type of glove must be selected for each workplace. Please Follow the glove supplier's instructions for permeability and breakthrough time. Also the specific, conditions under which the product will be used, such as cut hazard, abrasion and contact time. contact duration.
	Other:	Wear suitable protective clothing when working.
	Respiratory protection:	A suitable dust mask or respirator with filter type P1 or FFP1 (EN143 or EN149) may be suitable. In the unlikely event of the formation of particularly high quantities of dust, a self-contained breathing apparatus may be suitable. may be suitable.
	Hygiene measures:	Remove contaminated clothing. Wash hands before breaks and at the end of work. Do not eat or drink while drink.
	Limitation and monitoring of environmental exposure:	not required

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties
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	Parameter	Value
	State of aggregation	Powder
	Colour	white
	Smell	characteristic
	Melting point/freezing point	ca. 110 °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	> 250 °C
	Ignition temperature	> 400 °C
	Decomposition temperature	Not determined
	pH value	Not determined
	Kinematic viscosity	Not determined
	Solubility	No test required as the substance is known to be insoluble in water. Solubility in other solvents: soluble in hydrocarbons.
	Partition coefficient n-octanol/water (log value)	Not determined
	Vapour pressure	Not determined
	Density and/or specific gravity	1,16 g/cm ³
	Relative vapour density	Not determined
	Particle properties	Not determined
9.2.	Other information Oxidizing properties: not oxidizing Bulk density: (at 20 °C) 700 - 750 kg/m ³	

SECTION 10: Stability and reactivity

10.1	Reactivity	No hazardous reactions will occur if handled and stored as directed.
10.2	Chemical stability	The product is stable when stored at normal ambient temperatures.
10.3	Possibility of hazardous reactions	No dangerous reactions are known
10.4	Conditions to avoid	keine/keiner
10.5	Incompatible materials	There is no information available.
10.6	Decomposition products	Exothermic decomposition with formation of: Methyl methacrylate

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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	The product has not been toxicologically tested.
	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	Contains dibenzoyl peroxide; benzene peroxide. May cause allergic reactions.
	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	
	The mixture is classified as non-hazardous according to Directive 1999/45/EC.	

SECTION 12. Environmental information

12.1	Toxicity	The product is not: Ecotoxic
12.2	Persistence and degradability	The product has not been tested.
12.3	Bioaccumulative potential	The product has not been tested.
12.4	Mobility in soil	The product has not been tested.
12.5	Results of the PBT and vPvB assessment	The product has not been tested.
12.6	Endocrine disrupting properties	The product has not been tested.
12.7	Other adverse effects	The product has not been tested.

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Do not allow to enter drains or water courses. Dispose of in accordance with official regulations.
	Disposal methods	Wash off with plenty of water. Completely emptied packaging can be sent for recycling.

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SECTION 14: Transport information

14.1	ADR	Not a hazardous material as defined by these transport regulations.
14.2	ADN	Not a hazardous material as defined by these transport regulations.
14.3	RID	Not a hazardous material as defined by these transport regulations.
14.4	IMDG	No information available. Hazardous to the environment: n
14.5	IATA	Not a hazardous material as defined by these transport regulations.
14.6	Special precautions for the user:	Not a hazardous material as defined by these transport regulations.
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
	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

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National regulations	
Water hazard class	1 - slightly 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	Employment restrictions Observe employment restrictions for young people (§22 JArbSchG). Observe employment restrictions for expectant and nursing mothers. (§§ 11 and 12 MuSchG). Status: Classification of mixtures according to Annex 1, No. 5 AwSV
15.2	Chemical safety assessment SSubstance safety assessments for substances in this mixture have not been carried out.

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50 LD50: Lethal dose, 50

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	<p>Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].</p> <p>Classification Classification method</p> <p>Aquatic Chronic 3; H412 Calculation method</p> <p>Wording of H and EUH phrases (number and full text)</p> <p>H241 Heating may cause fire or explosion.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes severe eye irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>EUH208 Contains dibenzoyl peroxide; benzoyl peroxide. May cause allergic reactions</p> <p>Abbreviations and Acronyms</p>
Training information:	There are no data available.
Disclaimer:	<p>More information</p> <p>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.</p>

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IST® bite fork
Article no.: No. 98045

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	IST® bite fork Article no.: 98045
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Medical device
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	Dust. May be irritating to skin, eyes and respiratory system. If dust is formed (fine dust): May form explosive dust-air mixture if dispersed. Molten product may cause severe burns. Ingestion may cause gastrointestinal upset and pain in the gastrointestinal tract. This substance does not meet the PBT-NPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Polystyrene mixture contains: CAS No. 9003-55-8: Styrene-Butadiene Copolymer
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3.1.1	Dangerous ingredients	The product does not contain any hazardous substances in quantities that are required by applicable law to be mentioned in this section
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Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	No special measures are required
	Inhalation:	Provide fresh air. Put affected person in resting position and keep warm. Consult a doctor
	Eye contact:	Immediately rinse with running water for 10 to 15 minutes with the eyelids open. Remove any contact lenses if possible. Continue rinsing. Consult an ophthalmologist in case of irritation
	Skin contact:	The melted product may cause severe burns. Do not remove product from skin without medical attention. After contact with the melted product, cool the affected skin area quickly with water.
	Ingestion:	Rinse mouth with water About one to two glasses of water limp. Never administer anything by mouth to an unconscious person. Call a doctor
4.2	Most important symptoms and effects, both acute and delayed:	Dust. Skin irritation, eye irritation and redness.
4.3	Indications for immediate medical help or special treatment	
	Dangers:	There is no information available
	Treatment:	Symptomatic treatment. Decontamination. Vital signs

SECTION 5: Fire-fighting measures

5.1	General fire hazards	Use water spray to protect personnel and to cool containers in the hazardous area
	Extinguishing agent Suitable extinguishing media	Water spray, foam, dry powder, carbon dioxide (CO2)
	Unsuitable extinguishing media:	Water in full jet
5.2	Special hazards arising from the substance or mixture:	In the event of fire, the following can be produced: Smoke, carbon monoxide and carbon dioxide (CO2). In case of dusting (fine dust) Can form an explosive dust-LuR mixture in case of dispers on.
5.3	Advice for firefighters Advice for firefighters:	Wear environmental self-contained breathing apparatus and chemical protective suit

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Special protective equipment for fire fighting:	Prevent extinguishing water from entering surface waters or groundwater. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations.
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SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Wear personal protective equipment. Do not inhale dust.
6.2	Environmental protection measures:	Prevent penetration into soil, water or canahsation.
6.3	Methods and material for retention and cleaning:	Collect mechanically. In closed containers and take for disposal. dispose of Avoid generation of dust Remove all sources of ignition Ensure adequate ventilation. Special risk of slipping due to spilled product
6.4	Reference to other sections:	See supplementary paragraphs 8 and 13.

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Ensure good ventilation of store and workplace. Do not inhale dust. Extraction required if dust is generated. Molten product. Avoid substance contact
	Notes on fire and explosion protection:	Take measures against electrostatic charges Keep away from ignition sources. Use grounding devices Use explosion-proof equipment and spark milling tools Avoid OKene flames. In case of dust formation (fine dust) Dust explosion hazard.
7.2	Conditions for safe storage taking into account incompatibilities:	Store in a well-ventilated place Keep container tightly closed. Protect from heat/sunlight
	Storage stability:	Store in a well-ventilated place Keep container tightly closed. Protect from heat/sunlight
	Storage class:	11 = Combustible solids
7.3	Specific end uses:	There are no Informabonen available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	CAS-Nr. Bezeichnung: Styrolux® Typ: Deutschland: AGW Kurzzeit :Grenzwert: 2,5 mg/m' Typ: Deutschland: AGW Kurzzeit :Grenzwert: 20 mg/ m Typ: Deutschland: AGW Langzeit :Grenzwert: 1,25 mg/m
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		<p>Typ: Deutschland: AGW Langzeit :Grenzwert: 10 mg/m Typ: Deutschland: DFG Kurzzeit :Grenzwert: 2,4 mg/m Type: Germany: DFG Long-term :Grenzwert: 0.3 mg/m Type: Germany: DFG Long-term :Grenzwert: 4 mg/m CAS No. 100-42-5 Identification: Styrene Type: Germany: AGW Short-term Grenzwert: 172 mg/m'; 40 ppm Type: Germany: AGW Long-term : Grenzwert: 86 mg/m'; 20 ppm</p>
	Biological limit values	<p>CAS No. 100-42-5 Designation: Styrene Germany: TRGS 903 /Urin Limit values: 600 mg/g Creatinine Parameter: Mandelic acid + phenylglyoxylic acid Sampling: for long-term exposure End of exposure or shift</p>
8.2	Exposure controls Suitable engineering controls:	<p>Provide good ventilation in the workplace. Additional controls are not normally required when handling polymers. Thermal extrusion Ensure that the occupational exposure limit (OEL) is not exceeded by using local exhaust ventilation. The use of respiratory protection may be required during maintenance work.</p>
	Individual protective measures, for example personal protective equipment	
	General information:	If the occupational exposure limits (OEL) are exceeded, a respirator must be worn. Use filter type A-P2 according to EN 14387.
	Eye/face protection:	Tight-fitting safety goggles according to EN 166.
	Skin protection Hand protection:	<p>Protective gloves according to EN 374. Protective gloves made of fabric or leather.</p> <p>When melting: Heat-resistant protective gloves according to EN 407. Glove material: leather.</p> <p>The specifications of the manufacturer of the protective gloves regarding permeability and breakthrough times must be observed.</p>
	Other:	<p>The product contains very small amounts of residual monomers and process chemicals (styrene, ethylbenzene and butadiene) together with possible decomposition products that may be</p> <p>may be formed during thermal processes. Since the identity and content of these constituents depends on the process conditions (temperature, etc.), it is the responsibility of the user to determine appropriate protective or safety measures.</p>
	Respiratory protection:	If the occupational exposure limits (OEL) are exceeded, a respirator must be worn. Use filter type A-P2 according to EN 14387.
	Hygiene measures:	<p>Molten product: Avoid contact with skin Do not inhale dusts and vapors. Keep away from sources of ignition Wash hands before breaks and at end of work.</p> <p>In case of dust formation: Particular risk of slipping if spread on the floor see Chapter 7. No measures beyond these are required.</p>
	Limitation and monitoring of environmental exposure:	

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SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties
Parameter	Value
State of aggregation	solid, granules
Colour	colorless, clear
Smell	weak, characteristic
Melting point/freezing point	30 °C (DIN EN ISO 306)
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower explosion limit upper explosion limit	In case of dust formation (fine dust). In case of dispersion may form explosive dust-air mixture
Flash point	No data available
Ignition temperature	No data available
Decomposition temperature	ca. 300 °C
pH value	No data available
Kinematic viscosity	No data available
Solubility	insoluble
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Density and/or specific gravity	at 20°C: approx. 1.05 g/an' (DIN 53479)
Relative vapour density	No data available
Particle properties	No data available
9.2.	Other information Bulk density at 20 °C: approx. 640 kg/m' (DIN 53466)

SECTION 10: Stability and reactivity

10.1	Reactivity	see 10.3
10.2	Chemical stability	Stable under specified storage conditions.
10.3	Possibility of hazardous reactions	In case of dust formation (fine dust): May form explosive dust-air mixture if dispersed.
10.4	Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Avoid dust formation.
10.5	Incompatible materials	Strong oxidizing agents
10.6	Decomposition products	Hazardous decomposition products may be released during severe material overheating: Hydrogen cyanide, monomers, hydrocarbons, gases/vapors, cyclic low molecular weight oligomers, carbon monoxide and carbon dioxide. Them decomposition. approx. 300 °C

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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	The statements are derived from the properties of the individual components. No toxicological data are available for the product as such.
	Corrosive/irritant effect on the skin	Missing data not expected
	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	
	According to many years of experience, no adverse effects are known if the product is handled properly.	
	effects are known. Dust: May be irritating to skin, eyes and respiratory system.	
	Molten product may cause severe burns.	
	Thermal treatment, processing: Irritating to eyes, respiratory system and skin After ingestion:	
	Ingestion may cause gastrointestinal upset and pain in the stomach and intestines.	

SECTION 12. Environmental information

12.1	Toxicity	No indications of aquatic toxicity
12.2	Persistence and degradability	Biodegradation: The product is not readily biodegradable The product is likely to be persistent in the environment. It can be mechanically separated in sewage treatment plants.
		12.3 Bioaccumulative potential
12.3	Bioaccumulative potential	To avoid bioaccumulation, plastics should not be disposed of in the sea or other bodies of water.
12.4	Mobility in soil	No data available

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12.5	Results of the PBT and vPvB assessment	This substance does not meet the PBT-NPvB criteria of REACH, Annex XIII.
12.6	Endocrine disrupting properties	No data available
12.7	Other adverse effects	Do not allow to enter ground water, bodies of water or drains.

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Disposal according to Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG). Dispose of to a suitable incineration plant/landfill in accordance with local regulations. Waste code number: 07 02 99 = Waste from MFSU of plastics, synthetic rubber and synthetic fibers MFSU = Manufacture, preparation, distribution and use.
	Disposal methods	Dispose of in accordance with official regulations. Non-contaminated and residual empty packaging can be recycled

SECTION 14: Transport information

14.1	ADR	not applicable
14.2	ADN	not applicable
14.3	RID	No dangerous goods in the sense of these transport regulations
14.4	IMDG	not applicable
14.5	IATA	not applicable
14.6	Special precautions for the user:	No dangerous goods in the sense of these transport regulations
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

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	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	nwg = 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	No shock safety assessment is required for this substance..

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	ISTplus®-KIT n. Prof. Hinz Article no.:98200
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Fastening parts for thermoforming rails
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	According to EC directives not subject to labeling for handling.
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended.	Not classified
2.2	Labelling elements Additional information:	Not applicable No data available
2.3	Other dangers	There are no data available

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Chrome-nickel/steel, material 1.4305			
3.1.1	Dangerous ingredients	Not subject to declaration			
		Artikel	Deutsch	English	Material
		98029	Teleskop HF 9	Telescopes HF 9	A, B, C
		98029	Teleskop HF 9	Telescopes HF 9	A, B

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		98030	Teleskop HF 15	Telescopes HF 15	A, B, C			
		98030	Teleskop HF 15	Telescopes HF 15	A, B			
Material								
A	Edelstahl / Stainless Steel 1.4301							
	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Sonstige / Others
	≤0,07	≤ 1,0	≤2,0	≤ 0,045	≤0,030	17,5 – 19,5	8,0 – 10,5	N ≤ 0,11
B	Edelstahl / Stainless Steel 1.4305							
	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Sonstige / Others
	≤ 0,10	≤ 1,0	≤ 2,0	≤0,045	≤0,15 – 0,35	17,0 – 19,0	8,0 – 10,0	Cu ≤ 1,0; N ≤ 0,11
Material	Deutsch	English						
C	Polyamid	Polyamide						

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:	No special measures required
	Eye contact:	No special measures required
	Skin contact:	No special measures required
	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	Not applicable

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	Unsuitable extinguishing media:	Not applicable
5.2	Special hazards arising from the substance or mixture:	Not applicable
5.3	Advice for firefighters Advice for firefighters:	Not applicable
	Special protective equipment for fire fighting:	Not applicable

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Not applicable
6.2	Environmental protection measures:	Not applicable
6.3	Methods and material for retention and cleaning:	Not applicable
6.4	Reference to other sections:	Not applicable

Section 7: Handling and storage:

7.1	Protective measures for safe handling:	No special measures required
	Notes on fire and explosion protection:	No special measures required
7.2	Conditions for safe storage taking into account incompatibilities:	No special measures required
	Storage stability:	No special measures required
	Storage class:	No special measures required
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	not required
	Biological limit values	Not applicable

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8.2	Exposure controls Suitable engineering controls:	not required
	Individual protective measures, for example personal protective equipment	
	General information:	not required
	Eye/face protection:	not required
	Skin protection	not required
	Hand protection:	not required
	Other:	not required
	Respiratory protection:	not required
	Hygiene measures:	not required
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	Wert
	State of aggregation	Solid material
	Colour	silver gray, metallic
	Smell	odorless
	Melting point/freezing point	1400-1550 °C (depending on steel grade)
	Boiling point or initial boiling point and boiling range	There are no data available.
	Flammability	There are no data available.
	Lower explosion limit upper explosion limit	There are no data available.
	Flash point	There are no data available.
	Ignition temperature	There are no data available.
	Decomposition temperature	inapplicable
	pH value	inapplicable
	Kinematic viscosity	There are no data available.
	Solubility	Non soluble
	Partition coefficient n-octanol/water (log value)	There are no data available.
	Vapour pressure	There are no data available.
	Density and/or specific gravity	7.7 - 8.1 g / cm ³ (depending on steel grade)none
Relative vapour density	There are no data available.	
Particle properties	There are no data available.	
9.2.	Other information Bulk density: approx. 0.600 g/cm ³	

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SECTION 10: Stability and reactivity

10.1	Reactivity	There are no data available.
10.2	Chemical stability	The material is stable under normal conditions
10.3	Possibility of hazardous reactions	None known.
10.4	Conditions to avoid	None known.
10.5	Incompatible materials	None known.
10.6	Decomposition products	None known.

SECTION 11: Toxicological data

11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008	
	acute toxicity	There are no data available
	Corrosive/irritant effect on the skin	There are no data available
	Serious eye damage/irritation	There are no data available
	Sensitisation of the respiratory tract/skin	There are no data available
	Germ cell mutagenicity	There are no data available
	Carcinogenicity	There are no data available
	Reproductive toxicity	There are no data available
	Specific target organ toxicity at single exposure	There are no data available
	Specific target organ toxicity in case of repeated exposure	There are no data available
	Aspiration hazard	There are no data available
11.2	Information on other hazards	There are no data available
11.2.1	Endocrine disrupting properties	There are no data available
11.2.2	Other information	There are no data available

SECTION 12. Environmental information

12.1	Toxicity	There are no data available
12.2	Persistence and degradability	There are no data available
12.3	Bioaccumulative potential	There are no data available

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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	There are no data available

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Check possibility of recycling. May be disposed of as household waste or incinerated in a suitable incinerator in accordance with local regulations. Uncleaned packaging: Empty packaging completely.
	Disposal methods	There are no data available

SECTION 14: Transport information

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

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

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	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	none
	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	No chemical safety assessment has 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:	<p>More information</p> <p>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.</p>

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