

## Safety Data Sheets

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

**Muppy cap I, transparent/rigid**

**Article no.: No. 93101**

Revised on: 14.05.2024

Version: 6.0 Replaced version:5.0



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

1.1	<b>Product identifier</b>	<b>Muppy cap I, transparent/rigid</b> <b>Article no.: 93101</b>
1.2	<b>Relevant identified uses of the substance or mixture and uses which are not recommended</b>	
1.2.1	<b>Relevant uses medical device:</b>	Medical device - oral vestibule plate
1.2.2	<b>Uses that are not recommended:</b>	None known
1.3	<b>Details of the supplier providing the safety data sheet</b>	<b>Dr. Hinz Dental Vertriebsgesellschaft mbH &amp; Co. KG</b>  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	<b>Emergency number</b>	Contact: <b>Dr. P. Hinz</b> Phone: + 49 17 51 83 41 34

### SECTION 2: Possible dangers

2.1	<b>Classification of the substance or mixture</b>	The material test in accordance with DIN EN ISO/IEC 17025 was carried out by a testing laboratory accredited by Deutsche Akkreditierungsstelle GmbH. This material test resulted in a bisphenol A value [CAS 80-05-7] of < 0.02 mg/l, which is below the current limit value of 0.04 mg/l. The test is deemed to have been passed and can continue to be declared as safe for sale.
2.1.1	<b>Classification according to (EC) Regulation 1272/2008 as amended.</b>	Not classified
2.2	<b>Labelling elements</b> <b>Additional information:</b>	Not applicable No data available
2.3	<b>Other dangers</b>	This substance/mixture does not contain components in concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

### SECTION 3: Composition / Information on ingredients

3.1	<b>Chemical characterisation</b>	Polycarbonat
3.1.1	<b>Dangerous ingredients</b>	No hazardous ingredients according to REACH Regulation (EC) No 1907/2006.

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### Section 4: First aid measures

4.1	<b>Description of the first aid measures</b>	
	<b>General notes</b>	No action should be taken that involves personal risk or that has not been adequately trained.
	<b>Inhalation:</b>	Remove to fresh air. Seek medical attention if symptoms occur.
	<b>Eye contact:</b>	Immediately flush eye with water. Seek medical attention if symptoms occur.
	<b>Skin contact:</b>	IF IN CONTACT WITH HOT MELT: Cool immediately with plenty of water. Do not remove product crusts from affected skin areas by force or by using solvents. Consult a doctor immediately for treatment of possible burns and for gentle cleansing of the skin. The following information refers to handling the product at room temperature. In case of contact with skin, wash thoroughly with plenty of soap and water.
	<b>Ingestion:</b>	Do NOT induce vomiting if swallowed. Administer a glass of water. Seek medical attention.
4.2	<b>Most important symptoms and effects, both acute and delayed:</b>	No information available.
4.3	<b>Indications for immediate medical help or special treatment</b>	
	<b>Dangers:</b>	This product is not expected to be harmful under normal use and proper personal hygiene.
	<b>Treatment:</b>	Do NOT induce vomiting if swallowed. Administer a glass of water.

### SECTION 5: Fire-fighting measures

5.1	<b>General fire hazards</b>	Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations.
	<b>Extinguishing agent</b> <b>Suitable extinguishing media</b>	Water spray, extinguishing powder, carbon dioxide (CO <sub>2</sub> ), foam, dry extinguishing agent
	<b>Unsuitable extinguishing media:</b>	Avoid direct water jet; this will disperse and spread the fire
5.2	<b>Special hazards arising from the substance or mixture:</b>	Fire produces carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide (hydrocyanic acid). Do not inhale explosion and fire gases.
5.3	<b>Advice for firefighters</b>	Respiratory protection with independent air supply required for fire fighting. Do not allow contaminated extinguishing water to enter the ground, groundwater or bodies of water.

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<b>Special protective equipment for fire fighting:</b>	Wear self-contained breathing apparatus and protective clothing. Do not allow runoff from firefighting materials, even in diluted form, to reach bodies of water, sewers, or drinking water reservoirs. Use ordinary firefighting measures; consider hazards from other materials involved.
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### SECTION 6: Accidental release measures

<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures:</b>	Remove all sources of ignition. Wear personal protective equipment.
<b>6.2</b>	<b>Environmental protection measures:</b>	Do not allow the runoff to enter the sewer system, waterways or soil
<b>6.3</b>	<b>Methods and material for retention and cleaning:</b>	Wipe up spilled material and take to a safe place. Caution: Contaminated surfaces may be slippery.
<b>6.4</b>	<b>Reference to other sections:</b>	Caution: Contaminated surfaces may be slippery. Do not allow runoff to reach drains, sewers or bodies of water. For personal protective equipment see section 8 of SDS.

### Section 7: Handling and storage:

<b>7.1</b>	<b>Protective measures for safe handling:</b>	Under the recommended processing conditions, small quantities of emitters, essentially residual monomers and residual solvents, may be released. Ensure that the limit values specified in Section 8 are complied with by providing adequate ventilation or extraction at the workplace. Provide effective extraction of dusts during mechanical processing. Keep away from food and beverages. Wash hands and apply skin protection ointment before breaks and at the end of work. Change contaminated clothing.
	<b>Notes on fire and explosion protection:</b>	No special storage conditions required.
<b>7.2</b>	<b>Conditions for safe storage taking into account incompatibilities:</b>	No special storage conditions required.
	<b>Storage stability:</b>	No information available.
	<b>Storage class:</b>	Storage class (TRGS 510) : 11: Combustible solids
<b>7.3</b>	<b>Specific end uses:</b>	No information available.

### SECTION 8: Exposure controls/personal protective equipment

<b>8.1</b>	<b>Parameters to be monitored Occupational exposure limit values</b>	When processing this product, especially in the thermal process, the regulations for the substances listed below must be observed. According to our experience, the limit values quoted below can be safely complied with if effective devices for ventilation and extraction are used at the discharge points of any vapors that may arise.
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	<b>Biological limit values</b>	See Subsection 16 Table 8.1
<b>8.2</b>	<b>Exposure controls Suitable engineering controls:</b>	Eye showers and emergency showers must be available in the workplace. Provide adequate general and local exhaust ventilation system.
	<b>Individual protective measures, for example personal protective equipment</b>	
	<b>General information:</b>	Eye wash bottle with pure water. Do not eat, drink or smoke while working. Wash hands after handling
	<b>Eye/face protection:</b>	Wear safety goggles/face protection.
	<b>Skin protection Hand protection:</b>	Geeignete Materialien für Schutzhandschuhe; EN 374: Polyvinylchlorid - PVC: Dicke >=0,5mm  Kontaminierte und/oder beschädigte Handschuhe sind zu wechseln.
	<b>Other:</b>	Wear suitable protective clothing and goggles/face protection when working.
	<b>Respiratory protection:</b>	In case of dust generation, use filter unit with filter type particle filter P1 according to EN 145
	<b>Hygiene measures:</b>	Observe recognized industrial hygiene measures. Do not eat, drink or smoke while working. Maintain good personal hygiene. Thoroughly clean hands and contaminated work areas with soap and water before leaving the workplace. Avoid contact with skin and eyes.
	<b>Limitation and monitoring of environmental exposure:</b>	There are no data available.

### SECTION 9: Physical and chemical properties

<b>9.1</b>	Information on the basic physical and chemical properties	
	<b>Parameter</b>	<b>Wert</b>
	State of aggregation	solid at 20 °C at 1,013 hPa
	Colour	Transparent
	Smell	Odorless
	Melting point/freezing point	Softening point: 130 - 160 °C
	Boiling point or initial boiling point and boiling range	not determined
	Flammability	not determined
	Lower explosion limit upper explosion limit	Not applicable
	Flash point	not determined
	Ignition temperature	> 450 °C
	Decomposition temperature	The values given do not correspond to the product specification in every case. For specification data, refer to the Technical Data Sheet or the Application Information.  Explosive properties: not determined Dust explosion class: not determined Oxidizing properties: not determined
	pH value	>= 380 °C

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	Kinematic viscosity	Not applicable
	Solubility	not determinate
	Partition coefficient n-octanol/water (log value)	practically insoluble
	Vapour pressure	not determined
	Density and/or specific gravity	ca. 1,2 - 1,4 g/cm
	Relative vapour density	not determined
	Particle properties	not determined
<b>9.2.</b>	<b>Other information</b> not determined	

### SECTION 10: Stability and reactivity

<b>10.1</b>	<b>Reactivity</b>	No information available
<b>10.2</b>	<b>Chemical stability</b>	In the event of thermal decomposition, as occurs in the event of fire or due to overheating in the case of improper processing, for example, harmful gases and vapors may be formed.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No dangerous reactions observed.
<b>10.4</b>	<b>Conditions to avoid</b>	No information available
<b>10.5</b>	<b>Incompatible materials</b>	No information available
<b>10.6</b>	<b>Decomposition products</b>	<p>During carbonization or incomplete combustion, toxic gas mixtures containing mainly CO and CO<sub>2</sub> develop.</p> <p>Under the recommended processing conditions, small amounts of emitters may be released.</p> <p>When processing this product, especially in the thermal process, the regulations for the substances listed below must be observed. Phenol; Carboic acid; Monohydroxybenzene; Phenylalcohol</p> <p>INDEX No. 604-001-00-2</p> <p>CAS No.: 108-95-2</p> <p>Classification (1272/2008/EC): Acute Tox. 3 Oral H301 Acute Tox. 3 Inhalative H331 Acute Tox. 3 Dermal H311 Skin Corr. 1B H314 Eye Dam. 1 H318 Muta. 2 H341 STOT RE 2 H373 Aquatic Chronic 2 H411</p> <p>Chlorobenzene</p> <p>INDEX No. 602-033-00-1</p> <p>CAS No.: 108-90-7</p> <p>Classification (1272/2008/EC): Flam. Liq. 3 H226 Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315 Aquatic Chronic 2 H411</p>

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		4-tert-butylphenol INDEX No. 604-090-00-8 CAS No.: 98-54-4 Classification (1272/2008/EC): Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361f Aquatic Chronic 1 H410 Bisphenol A; 4,4'-isopropylidenediphenol. CAS No.: 80-05-7 Classification (1272/2008/EC): Repr. 1B H360F STOT SE 3 Inhalative H335 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Chronic 2 H413
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### SECTION 11: Toxicological data

<b>11.1</b>	<b>Information on hazard classes within the meaning of Regulation (EC) No 1272/2008</b>	
	acute toxicity	No data available.
	Corrosive/irritant effect on the skin	No data available.
	Serious eye damage/irritation	No data available.
	Sensitisation of the respiratory tract/skin	No data available.
	Germ cell mutagenicity	No data available.
	Carcinogenicity	No data available.
	Reproductive toxicity	According to our experience and information, the product does not cause any adverse health effects when handled properly.
	Specific target organ toxicity at single exposure	No data available.
	Specific target organ toxicity in case of repeated exposure	No data available.
Aspiration hazard	No data available.	
<b>11.2</b>	<b>Information on other hazards</b>	No data available.
<b>11.2.1</b>	<b>Endocrine disrupting properties</b>	No data available.
<b>11.2.2</b>	<b>Other information</b>	No data available.

### SECTION 12. Environmental information

<b>12.1</b>	<b>Toxicity</b>	No data available.
<b>12.2</b>	<b>Persistence and degradability</b>	No data available.
<b>12.3</b>	<b>Bioaccumulative potential</b>	No data available.

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12.4	<b>Mobility in soil</b>	The product is practically insoluble in water. Due to its consistency and insolubility in water, no ecological problems are expected if handled properly. The product is not easily biodegradable
12.5	<b>Results of the PBT and vPvB assessment</b>	There are no data available
12.6	<b>Endocrine disrupting properties</b>	There are no data available
12.7	<b>Other adverse effects</b>	There are no data available

### SECTION 13: Disposal instructions

13.1	<b>Waste treatment process</b>	
	<b>General information</b>	Disposal in compliance with all applicable international, national and local laws, regulations and statutes. For disposal within the EU, the respective valid waste code according to the European Waste Catalogue (EWC) must be used.
	<b>Disposal methods</b>	Emptied packaging can be handed over for recycling after residual emptying (free-flowing, spatula-clean, drip-free) at the acceptance points of the existing take-back systems of the chemical industry. Recycling must be carried out in accordance with national legislation and environmental protection regulations. The product is suitable for mechanical recycling. After appropriate treatment, it can be remelted and reprocessed into new molded parts. Voraussetzung für ein werkstoffliches Recycling ist materialspezifische Erfassung und sortenreine Verwertung.

### SECTION 14: Transport information

14.1	<b>ADR</b>	Not dangerous goods
14.2	<b>ADN</b>	Not dangerous goods
14.3	<b>RID</b>	Not dangerous goods
14.4	<b>IMDG</b>	Not dangerous goods
14.5	<b>IATA</b>	Not dangerous goods
14.6	<b>Special precautions for the user:</b>	Not dangerous goods
14.7	<b>Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:</b>	Not dangerous goods

### SECTION 15: Legislation

15.1	<b>Safety, health and environmental regulations/specific legislation for the substance or mixture:</b>	
	<b>EU regulations</b>	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none

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	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
	<b>National regulations</b>	
	Water hazard class	nw not hazardous to water Identification number according to AwSV: 768
	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
<b>15.2</b>	<b>Chemical safety assessment</b>	No chemical safety assessment has been carried out for this substance/mixture (or its components).

### SECTION 16: Other information

<b>16.1</b>	<b>Information on the revision</b>	Not relevant.
	<b>Important literature references and data sources:</b>	There are no data available.
	<b>Training information:</b>	There are no data available.
	<b>Disclaimer:</b>	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



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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.

### 8.1 Biological limits

Stoff	CAS-Nr.	Basis	Type	Value	Peak limiting value	Notes
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m <sup>3</sup>		indicative
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	EU ELV				Skin resorption possible
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	EU ELV	STEL	4ppm 16 mg/m <sup>3</sup>		indicative
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900				Registered
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900				Skin resorption possible
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900		2ppm 8 mg/ m <sup>3</sup>	2	
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900	Short-term overru n			Category II: Resorptive substances
Chlorbenzol	108-90-7	TRGS 900				Registered
Chlorbenzol	108-90-7	TRGS 900		5 ppm 23mg/m <sup>3</sup>	2	Y
Chlorbenzol	108-90-7	EU ELV	TWA	5 ppm 23mg/m <sup>3</sup>		indicative
Chlorbenzol	108-90-7	EU ELV	STEL	15 ppm 70 mg/m <sup>3</sup>		indicative
Chlorbenzol	108-90-7	TRGS 900	Short-term overru n			Category II: Resorptive substances
4-tert-Butylphenol	98-54-4	TRGS 900				Registered
4-tert-Butylphenol	98-54-4	TRGS 900		0,08 ppm 0,5 mg/m <sup>3</sup>	2	
4-tert-Butylphenol	98-54-4	TRGS 900				Skin resorption possible
4-tert-Butylphenol	98-54-4	TRGS 900	Short-term overru n			
Bisphenol A; 4,4' - Isopropylidendiphenol	80-05-7	TRGS 900				Registered
Bisphenol A; 4,4' - Isopropylidendiphenol	80-05-7	TRGS 900	Short-term overru n			Category I

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<b>Bisphenol A; 4,4'-Isopropylidendiphenol</b>	80-05-7	TRGS 900		5mg/m3		Y
<b>Bisphenol A; 4,4'-Isopropylidendiphenol</b>	80-05-7	EU ELV	TWA	2 mg/m3		indicative
<b>General dust limit</b>		TRGS 900		10 mg/m3	2	Inhalable fraction
<b>General dust limit</b>		TRGS 900		3 mg/m3	2	alveolengägnig fraction
<b>General dust limit</b>		TRGS 900	Short-term overru n			Category II: Resorptive substances