

## Safety Data Sheets

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

**Friedensstifter® KL I / Stufe 1**  
**Article no.: No. 90981**

Revised on: 15.05.2023  
Version: 5.0 Replaced version: 4.0



SECTION 1: Identification of the substance or mixture and of the company/undertaking		
1.1	Product identifier	<b>Friedensstifter® KL I / Stufe 1</b> Article no.: <b>90981</b>
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 - test device
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	<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	Emergency number	Contact: <b>Dr. P. Hinz</b> Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers		
2.1	Classification of the substance or mixture	No hazardous substance or mixture.
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended.	No hazardous substance or mixture.
2.2	Labelling elements Additional information:	Not applicable No data available
2.3	Other dangers	This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB). Environmental information: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more. Toxicological information: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

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### SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	Vinylacetat-Ethylen-Copolymer
3.1.1	Dangerous ingredients	Chemical name: Vinyl Acetate - Ethylene Copolymer CAS No. EC No. INDEX No. Registration No.: 24937-78-8 Concentration (% w/w): > 98 For explanation of abbreviations, see section 16.

### Section 4: First aid measures

4.1	<b>Description of the first aid measures</b>	
	General notes	Do not leave affected person unattended.
	Inhalation:	If unconscious, apply stable side position and seek medical advice. If symptoms persist, consult a doctor.
	Eye contact:	Remove contact lenses. Protect uninjured eye. Consult a medical specialist if eye irritation persists.
	Skin contact:	After contact with the melted product, quickly cool affected skin area with water. Do not remove solidified product from skin. Burns must be treated by a doctor.
	Ingestion:	Keep airways clear. Do not administer milk or alcoholic beverages. Never give anything by mouth to a person who has fainted. Consult a physician if symptoms persist.
4.2	Most important symptoms and effects, both acute and delayed:	None known.
4.3	<b>Indications for immediate medical help or special treatment</b>	
	Dangers:	None known.
	Treatment:	Symptomatic treatment.

### SECTION 5: Fire-fighting measures

5.1	General fire hazards	Usual measures for fires with chemicals. Adapt extinguishing measures to the surroundings
	Extinguishing agent Suitable extinguishing media	Water Foam Dry chemical extinguishing agent Carbon dioxide (CO2)
	Unsuitable extinguishing media:	None known.

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5.2	<b>Special hazards arising from the substance or mixture:</b>	Do not use a full stream of water to suppress dispersion and spread of fire
5.3	<b>Advice for firefighters Advice for firefighters:</b>	Hazardous combustion products: Oxides of carbon
	<b>Special protective equipment for fire fighting:</b>	In case of fire, wear self-contained breathing apparatus if necessary.

### SECTION 6: Accidental release measures

6.1	<b>Personal precautions, protective equipment and emergency procedures:</b>	Avoid dust formation. Avoid inhalation of dust. Provide adequate ventilation.
6.2	<b>Environmental protection measures:</b>	No special environmental protection measures required.
6.3	<b>Methods and material for retention and cleaning:</b>	Pick up dust-free and deposit dust-free. Sweep and shovel up. Place in suitable and sealed containers for disposal.
6.4	<b>Reference to other sections:</b>	See sections: 7, 8, 11, 12 and 13.

### Section 7: Handling and storage:

7.1	<b>Protective measures for safe handling:</b>	Personal protective equipment see under section 8. Handling Do not eat, drink or smoke in the area of application. Keep dust generation and accumulation as low as possible. Advice on protection against fire and explosion Provide suitable ventilation in case of dust generation. When processing the product, dusts may form an explosive mixture with air. Hygiene measures General industrial hygiene measures.
	<b>Notes on fire and explosion protection:</b>	Store in a cool and dry place. Maintain dryness of resin To maintain product quality, store away from heat and direct sunlight. Electrical equipment/appliances must comply with the state of the art in safety.
7.2	<b>Conditions for safe storage taking into account incompatibilities:</b>	Combined storage instructions No substances requiring special mention.
	<b>Storage stability:</b>	No decomposition when stored and used as directed
	<b>Storage class:</b>	11, Combustible solids
7.3	<b>Specific end uses:</b>	There are no data available.

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

8.1	<b>Parameters to be monitored Occupational exposure limit values</b>	Does not contain substances with occupational exposure limits.
	<b>Biological limit values</b>	Does not contain substances with occupational exposure limits.
8.2	<b>Exposure controls Suitable engineering controls:</b>	Local suction device
	<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>	Safety glasses
	<b>Skin protection Hand protection:</b>	Protective gloves
	<b>Other:</b>	Wear suitable protective clothing and goggles/face protection when working.
	<b>Respiratory protection:</b>	Normally no personal respiratory protection necessary.  If dust or aerosol is generated, use respiratory protection with recognized filter type
	<b>Hygiene measures:</b>	Anerkannte industrielle Hygienemaßnahmen beachten. 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

9.1	Information on the basic physical and chemical properties	
	<b>Parameter</b>	<b>Value</b>
	State of aggregation	fixed
	Colour	colorless
	Smell	mild, after acetic acid
	Melting point/freezing point	No data available
	Boiling point or initial boiling point and boiling range	No data available
	Flammability	No data available
	Lower explosion limit upper explosion limit	No data available
	Flash point	Not applicable
	Ignition temperature	> 330 °C
	Decomposition temperature	> 300 °C
	pH value	No data available

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	Kinematic viscosity	No data available
	Solubility	Wsolubility insoluble
	Partition coefficient n-octanol/water (log value)	No data available
	Vapour pressure	No data available
	Density and/or specific gravity	No data available
	Relative vapour density	No data available
	Particle properties	No data available
<b>9.2.</b>	<b>Other information</b> No data available	

### SECTION 10: Stability and reactivity

<b>10.1</b>	<b>Reactivity</b>	No decomposition when stored and used as directed.
<b>10.2</b>	<b>Chemical stability</b>	No decomposition when stored and used as directed.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Hazardous reactions: Stable under specified storage conditions. No hazards requiring special mention. Dust may form explosive mixtures with air bilden.
<b>10.4</b>	<b>Conditions to avoid</b>	No data available
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidizing agents
<b>10.6</b>	<b>Decomposition products</b>	No data available

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### SECTION 11: Toxicological data

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11.1	<b>Information on hazard classes within the meaning of Regulation (EC) No 1272/2008</b>	
	acute toxicity	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer:  Acute oral toxicity  LD50 (rat): > 5,000 mg/kg.
	Corrosive/irritant effect on the skin	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer:  Acute oral toxicity  LD50 (rat): > 5,000 mg/kg.
	Serious eye damage/irritation	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer:  Acute oral toxicity  LD50 (rat): > 5,000 mg/kg.
	Sensitisation of the respiratory tract/skin	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer: Acute oral toxicity LD50 (rat): > 5,000 mg/kg.
	Germ cell mutagenicity	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer:  Acute oral toxicity  LD50 (rat): > 5,000 mg/kg.
	Carcinogenicity	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer:  Acute oral toxicity  LD50 (rat): > 5,000 mg/kg.
	Reproductive toxicity	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer:  Acute oral toxicity  LD50 (rat): > 5,000 mg/kg.
	Specific target organ toxicity at single exposure	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer: Acute oral toxicity LD50 (rat): > 5,000 mg/kg.
	Specific target organ toxicity in case of repeated exposure	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer: Acute oral toxicity LD50 (rat): > 5,000 mg/kg.
Aspiration hazard	Not classified according to the available information. Vinyl Acetate - Ethylene Copolymer: Acute oral toxicity LD50 (rat): > 5,000 mg/kg.	

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11.2	<b>Information on other hazards</b>	No data available
11.2.1	<b>Endocrine disrupting properties</b>	The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.
11.2.2	<b>Other information</b>	No data available

### SECTION 12. Environmental information

12.1	<b>Toxicity</b>	Inhaltsstoffe:  Vinylacetat-Ethylen-Copolymer:  Toxizität für Fische  LC50 (Danio rerio (Zebraabrling)): > 500 mg/l  Expositionszeit: 96 h
12.2	<b>Persistence and degradability</b>	No data available
12.3	<b>Bioaccumulative potential</b>	No data available
12.4	<b>Mobility in soil</b>	No data available
12.5	<b>Results of the PBT and vPvB assessment</b>	This substance/mixture does not contain components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
12.6	<b>Endocrine disrupting properties</b>	The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.
12.7	<b>Other adverse effects</b>	No data available

### SECTION 13: Disposal instructions

13.1	<b>Waste treatment process</b>	
	<b>General information</b>	Dispose of in compliance with local official regulations.
	<b>Disposal methods</b>	Deliver empty containers to an approved waste disposal facility for recovery or disposal.

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### SECTION 14: Transport information

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

### 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:	Not applicable
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	Not applicable
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	Not applicable
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	Not applicable
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	Not applicable
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	Not applicable
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	Not applicable
	Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	Not applicable
	Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	Not applicable
	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	Not applicable
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	Not applicable
	<b>National regulations</b>	



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	Water hazard class	not hazardous to water (nwg)
	Reference to Technical Rules for Hazardous Substances (TRGS)	Not applicable
	VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	Not applicable
	Other regulations	Not applicable
<b>15.2</b>	<b>Chemical safety assessment</b>	No data available

### SECTION 16: Other information

<b>16.1</b>	<b>Information on the revision</b>	Not relevant.
	<b>Important literature references and data sources:</b>	<p>Full text of H-phrases</p> <p>Full text of other abbreviations</p> <p>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Materials Testing; bw - body weight; CLP - Regulation on Classification, Labelling and Packaging of Substances, Regulation (EC) No 1272/2008; CMR - Carcinogenic, Mutagenic or Reproductive toxicant; DIN - German Institute for Standardization standard; DSL - List of Domestic Substances (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x % reaction; ELx - Loading rate associated with x % reaction; EmS - Emergency Response Plan; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x % growth rate; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Chemical Substances Existing in China; IMDG - International Maritime Dangerous Goods Code; IMO - International Maritime Organization; ISHL - Occupational Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Inventory of Chemicals Existing in Korea; LC50 - Lethal Concentration for 50% of a Test Population; LD50 - Lethal Dose for 50% of a Test Population (Mean Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n. o.s. - Not elsewhere specified; NO(A)EC - Concentration at which no (adverse) effect is apparent; NO(A)EL - Dose at which no (adverse) effect is apparent; NOELR - No apparent effect loading; NZIoC - New Zealand Chemical Inventory; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention (OSCPP); PBT - Persistent, Bioaccumulative and Toxic Substances; PICCS - Inventory of Chemicals and Chemical Substances Present in the Philippines; (Q)SAR - (Quantitative) Structure-Activity Relationship; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Inventory of Chemical Substances present in Taiwan; TRGS - Technical Rules for Hazardous</p>

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		Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative
	<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 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.