

Safety Data Sheets

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

Spezial-Isolierung - 250 ml
Article no.: No. 97114

Revised on: 14.05.2024

Version: 5.0 Replaced version:4.0



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

1.1	Product identifier	Spezial-Isolierung - 250 ml Article no.: 97114
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Special insulation
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 most important adverse physicochemical effects, effects on human health and the environment Product is flammable and can be ignited by potential ignition sources.				
2.1.1	Classification according to (EC) Regulation 1272/2008 as amended.				
	Section	Hazard class	Categor	Hazard class and category	Hazard statement
	2.6	Flammable liquids	2	Flam. Liq. 2	H225
	3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
	- Hazard statements H225 Highly flammable liquid and vapor. H319 Causes severe eye irritation.				
	- Safety advice P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. P233 Keep container tightly closed. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguishing agent to extinguish. P403+P235 Keep in a well-ventilated place. Keep cool. P501 Dispose of contents/container to industrial incinerator.				

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2.2	Labelling elements Additional information:	Signal word Danger - Pictograms GHS02, GHS07 
2.3	Other dangers	Results of PBT and vPvB assessment. According to the results of its assessment, this substance is neither a PBT nor a vPvB substance.

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	64 - 17-5 Ethanol 25-50% F, R 11
3.1.1	Dangerous ingredients	Components Ethanol, abs. 100% p.b.w. Cas-No. 64-17-5 EC No. 200-578-6 Concentration $\geq 25\%$ -<50%

Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	No special first aid measures required.
	Inhalation:	No danger from inhalation
	Eye contact:	Immediately flush eye with water. Seek medical attention if symptoms occur
	Skin contact:	Wash off with plenty of water.
	Ingestion:	Rinse mouth with water and drink plenty of water. Prevent vomiting if possible. Consult a doctor if necessary.
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:	No information available.
	Treatment:	Show this safety data sheet to the attending physician.

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SECTION 5: Fire-fighting measures

5.1	General fire hazards	No information available
	Extinguishing agent Suitable extinguishing media	All extinguishing agents possible
	Unsuitable extinguishing media:	Avoid direct water jets; this will scatter and spread the fire.
5.2	Special hazards arising from the substance or mixture:	No information available
5.3	Advice for firefighters Advice for firefighters:	Adapt extinguishing measures to the surroundings.
	Special protective equipment for fire fighting:	No information available

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Personnel not trained for emergencies Move persons to safety. Emergency personnel Respirator must be worn when exposed to vapors, dusts, aerosols, and gases
6.2	Environmental protection measures:	Prevent seepage into drains or surface and ground water. Contaminated wash water must be and dispose of it.
6.3	Methods and material for retention and cleaning:	Hinweise wie verschüttete Materialien an der Ausbreitung gehindert werden können Abdecken der Kanalisationen Hinweise wie die Reinigung im Fall von Verschütten erfolgen kann Wipe up with absorbent material (e.g. cloth, fleece). Absorb spilled quantities: Sawdust, diatomaceous earth (diatomit), sand, universal binder Suitable containment techniques. Use of adsorbent materials. Further information concerning spillage and release Place 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. Incompatible materials: see section 10. Disposal information: see section 13.

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Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Ensure adequate ventilation. Advice on protection against fire and explosion Do not smoke during work. Keep away from open flames, hot surfaces and ignition sources.
	Notes on fire and explosion protection:	Keep away from sources of heat and ignition. Keep the container tightly closed. Never return unused material to the storage containers.
7.2	Conditions for safe storage taking into account incompatibilities:	Keep away from food, drink and animal feed. Do not store together with oxidizing and spontaneously combustible substances . (See also section 10)
	Storage stability:	Store in the original container at room temperature. Protect from direct sunlight. Store in a place store in a place accessible only to authorized persons.
	Storage class:	TRGS 510: 3
7.3	Specific end uses:	There are no data available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values											
	Occupational exposure limits (occupational exposure limits)											
	Country	Working substance	CAS-Nr.	identificator	SMW [ppm]	SMW [mg/m ³]	KZW [ppm]	KZW [mg/m ³]	Mow [ppm]	Mow [mg/m ³]	Note	Source
DE	Ethanol	64-17-5	MAK	200	380	800	1.520				DFG	
DE	Ethanol	64-17-5	AGW	200	380	800	1.520			Y	TRGS 900	
Biological limit values				<p>Note</p> <p>KZW Short-term value (limit value for short-term exposure): limit value which should not be exceeded, based on a duration of 15 min.</p> <p>minutes (unless otherwise stated)</p>								

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		<p>Mow Instantaneous value is the limit value which should not be exceeded (ceiling value)</p> <p>SMW Shift mean value (limit value for long-term exposure): Time-weighted mean value, measured or calculated for a reference period of eight hours (unless otherwise stated).</p> <p>reference period of eight hours (unless otherwise specified).</p> <p>Y a risk of fruit damage need not be feared if the occupational exposure limit value and the biological limit value are observed.</p> <p>(BGW) need not be feared.</p>
8.2	Exposure controls Suitable engineering controls:	not required
	Individual protective measures, for example personal protective equipment	
	General information:	Individual protective measures (personal protective equipment)
	Eye/face protection:	Wear safety goggles/face protection.
	Skin protection Hand protection:	Wear suitable protective gloves.
	Other:	Allow recovery phases for regeneration of the skin. Preventive skin protection (protective creams/ointments) is recommended. recommended. Wash hands thoroughly after use.
	Respiratory protection:	Wear respiratory protection in case of insufficient ventilation
	Hygiene measures:	Generally accepted industrial hygiene measures. No special protective equipment required. During work do not smoke
	Limitation and monitoring of environmental exposure:	Use suitable container to avoid contamination of the environment. Prevent the product from entering drains or into surface and ground water

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties	
	Parameter	Wert
	State of aggregation	liquid
	Colour	colorless
	Smell	alcoholic
	Melting point/freezing point	indeterminate
	Boiling point or initial boiling point and boiling range	>78 °C
	Flammability	inapplicable

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	Lower explosion limit	0,9 Vol.-%
	upper explosion limit	15,0 Vol.-%
	Flash point	25 °C
	Ignition temperature	425 °C
	Decomposition temperature	indeterminate
	pH value	not determined
	Kinematic viscosity	indeterminate
	Solubility	vollkommen mischbar
	Partition coefficient n-octanol/water (log value)	indeterminate
	Vapour pressure	(bei 20 °C) 57 hPa
	Density and/or specific gravity	(bei 20 °C): 0,94 g/cm ³ K-QP1012E
	Relative vapour density	indeterminate
	Particle properties	indeterminate
9.2.	Other information Solids content: undetermined	

SECTION 10: Stability and reactivity

10.1	Reactivity	No information available.
10.2	Chemical stability	No information available.
10.3	Possibility of hazardous reactions	No information available.
10.4	Conditions to avoid	Do not expose to temperatures above 30 °C.
10.5	Incompatible materials	Oxidizing agents (peroxides, nitric acid)
10.6	Decomposition products	No decomposition when stored and used as directed. Further information: Do not mix with other cleaners or chemicals.

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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	Based on available data, the classification criteria are not met.
	Corrosive/irritant effect on the skin	Based on available data, the classification criteria are not met.
	Serious eye damage/irritation	Based on available data, the classification criteria are not met.
	Sensitisation of the respiratory tract/skin	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity	Based on available data, the classification criteria are not met.
	Carcinogenicity	Based on available data, the classification criteria are not met.
	Reproductive toxicity	Based on available data, the classification criteria are not met.
	Specific target organ toxicity at single exposure	Based on available data, the classification criteria are not met.
	Specific target organ toxicity in case of repeated exposure	Based on available data, the classification criteria are not met.
	Aspiration hazard	Based on available data, the classification criteria are not met.
11.2	Information on other hazards	Based on available data, the classification criteria are not met.
11.2.1	Endocrine disrupting properties	Based on available data, the classification criteria are not met.
11.2.2	Other information	No adverse health effects are known or expected if the product is used as directed.

SECTION 12. Environmental information

12.1	Toxicity	No data available for the product itself
12.2	Persistence and degradability	Does not contain substances that are known to be hazardous to the environment or that are not degraded in wastewater treatment plants. in sewage treatment plants. The surfactants contained meet the requirements of Detergents Regulation 648/2004/EC. Readily biodegradable according to the criteria of the OECD
12.3	Bioaccumulative potential	No information available
12.4	Mobility in soil	No organic halogen compounds (AOX) or AOX-forming halogen compounds are contained in this product due to the formulation. halogen compounds are contained in this product due to the formulation.
12.5	Results of the PBT and vPvB assessment	No information available.
12.6	Endocrine disrupting properties	here are no data available.

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12.7	Other adverse effects	here are no data available.
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SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Recommendations for disposal Empty container thoroughly. Do not pour large quantities of product residues down the drain. Waste code 200399 - unused product MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL AND INDUSTRIAL WASTE AND WASTE FROM FACILITIES), INCLUDING SEPARATELY COLLECTED FACTIONS; Other municipal waste; Municipal waste n.e.c. Waste code 200399 - spent product MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL AND INDUSTRIAL WASTE AND WASTE FROM ESTABLISHMENTS), INCLUDING SEPARATELY COLLECTED FACTIONS; Other municipal waste; Municipal waste n.e.c.
	Disposal methods	Deliver empty containers to an approved waste disposal facility for recovery or disposal

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SECTION 14: Transport information

14.1	ADR	UN number	UN 1170
		Proper shipping name UN Shipping Name:	ETHANOL, SOLUTION (ETHYLALKOHOL, SOLUTION)
		Transport hazard classes:	3
		Packing group	III
		Hazard label:	3 
		Classification code:	F1
		Special provisions:	144 601
		Limited Quantity (LQ):	5 L
		Excepted Quantity:	E1
		Promotion category:	3
Hazard number:	30		
Tunnel restriction code:		D/E	
14.2	ADN	Not relevant	
14.3	RID	UN number	UN 1170
		Proper shipping name UN Shipping Name:	ETHANOL, SOLUTION (ETHYLALKOHOL, SOLUTION)
		Transport hazard classes:	3
		Packing group	III
		Hazard label:	3 
		Classification code:	F1
		Special provisions:	144 601
		Limited Quantity (LQ):	5 L
		Excepted Quantity:	E1
		Promotion category:	3
Hazard number:	30		
Tunnel restriction code:		D/E	
14.4	IMDG	UN number	UN 1170
		Proper shipping name UN Shipping Name:	ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)
		Transport hazard classes:	3
		Packing group	III
		Hazard label	3 
		Special provisions:	144, 223
		Limited Quantity (LQ):	5 L
		Excepted Quantity:	E1
		EmS:	F-E, S-D

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14.5	IATA	Not relevant
14.6	Special precautions for the user:	Not required
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not relevant

SECTION 15: Legislation

15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	Not applicable
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	Not applicable
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	Not applicable
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	Not applicable
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	Restrictions on use (REACH, Annex XVII): Entry 3
	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
National regulations		
Water hazard class	1 - slightly hazardous to water Classification of mixtures according to Annex 1, No. 5 AwSV	

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	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.

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SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	<p>Abbreviations and acronyms</p> <p>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 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>CLP: Classification, labelling and Packaging</p> <p>REACH: Registration, Evaluation and Authorization of Chemicals</p> <p>GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals</p> <p>UN: United Nations</p> <p>DNEL: Derived No Effect Level</p> <p>DMEL: Derived Minimal Effect Level</p> <p>PNEC: Predicted No Effect Concentration</p> <p>ATE: Acute toxicity estimate</p> <p>LL50: Lethal loading, 50%</p> <p>EL50: Effect loading, 50%</p> <p>EC50: Effective Concentration 50%</p> <p>ErC50: Effective Concentration 50%, growth rate</p>

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	<p>NOEC: No Observed Effect Concentration</p> <p>BCF: Bio-concentration factor</p> <p>PBT: persistent, bioaccumulative, toxic</p> <p>vPvB: very persistent, very bioaccumulative</p> <p>RID: Regulations concerning the international carriage of dangerous goods by rail</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)</p> <p>EmS: Emergency Schedules</p> <p>MFAG: Medical First Aid Guide</p> <p>MARPOL: International Convention for the Prevention of Marine Pollution from Ships</p> <p>IBC: Intermediate Bulk Container</p> <p>SVHC: Substance of Very High Concern</p> <p>Abkürzungen und Akronyme siehe Verzeichnis unter http://abk.esdscom.eu</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>