



Safety Data Sheet



According to EG 1907/2006 (REACH)

versions-No.: 01

Valid from: 06/2016
Replaces version No. 08/2013

1. Identification of the substance/preparation and of the company	
1.1 Trade name:	Adenta Artikulationsgips (Spezial Artikulationsgips) Adenta Hartgips Typ III (Spezial Hartgips Typ 3) Adenta Sockelgips (Spezial Sockelgips) Adenta Superhatgips Typ IV (Synthetischer Spezial Superhartgips Typ 4) Adenta Superhatgips thixotrop Typ IV (Synthetischer Spezialstumpfgips Typ 4)
1.2 Product description:	See point 1.1
Purpose:	Auxiliary in the dental sector
1.3 Producer:	Adentatec GmbH
Street:	Konrad-Adenauer-Straße 13
Zip code, town, country	50996 Köln/ GERMANY
Telephone:	0 221 - 35 96 100
Telefax:	0 221 - 35 96 170
Person providing the information:	Klaus Renner Tel.: 0 221 - 35 96 100 info@adentatec.com
Emergency information:	Tel.: 0 221 - 35 96 100
E-mail:	info@adentatec.com
Website:	www.adentatec.com
2. Hazards identification	
2.1 Description of the risk	not applicable - see section 2.2
Special hazard warnings for humans and for the environment:	not applicable
User:	Qualified professionals (dental technicians, dentists)
Classification system:	The classification complies with the latest EU lists, but there are additional data from specialized literature and from the company
2.2 GHS identification elements:	not applicable
2.3 Other hazards Results of the PBT and vPvB assessment:	not applicable
3. Composition / Information about the components	
3.1 Chemical characterization	Substances
CAS no. designation:	Listed below
Identification number:	Not applicable
EC number:	Not applicable
3.1 Chemical characterization	Composites
Description:	Plaster preparation
Hazardous ingredients:	
CAS: 10034-76-1	Calcium sulphate x 0.5 H ₂ O 50-100%
EINECS: 231-900-3	Substance for which there are Community Workplace Exposure limits



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In addition only for Adenta Sockelgips: CAS: 6487-48-5 Oxalsäure, K-Salz < 2,5% Indexnummer: 607-007-00-3 Xn R21/22 Acute Tox. 4, H302; Acute Tox. 4, H312	
In addition only for Adenta Superhatgips Typ IV: CAS: 7778-18-9 Calciumsulfat waterfree 2,5-<10% EINECS: 231-900-3 Substance for which there are Community Workplace Exposure limits Additional information: For the exact wording of the hazard information, see section 16	
4. First Aid	
4.1 Description of the First Aid measures: After inhalation: After swallowing: After skin contact: After eye contact:	No specific action required Supply fresh air, in case of discomfort, seek medical advice. Rinse your mouth and drink some water afterwards. In case of persistent discomfort, see a doctor. Wash with soap and water, rinse. Rinse eyes under running water and seek medical advice
4.2 Most important acute and delayed symptoms and effects:	No further relevant information available.
4.3 Information for medical urgent care or a specialized treatment:	No further relevant information available.
5. Fire-fighting Measures	
5.1 Extinguishing agents	Use fire fighting measures that suit the environment. The product itself is not flammable. CO ₂ , extinguishing powder or water jet spray. Fight a major fire with foam.
5.2 Special hazards emitted by the substance or composite:	In case of a fire can be released: sulphur trioxide (SO ₃)
5.3 Information for Fire-fighting Special protective equipment:	No specific action required
6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency rocedures:	Avoid stirring dust. Wear personal protective equipment.
6.2 Environmental precautions:	No specific action required
6.3 Methods and material for containment and cleaning up:	Take up mechanically
6.4 Reference to other sections:	No hazardous substances are emitted.



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7. Handling and storage	
7.1 Precautions for safe handling: Information concerning fire and explosion protection:	When used properly, no specific action required. Ensure a good ventilation/extraction at the workplace. When dust is formed, provide extraction. The product is not flammable.
7.2 Conditions for safe storage, including any incompatibilities Information for storage together with other products:	not required
Further information on storage conditions:	Keep container tightly closed
Storage class: Classification according to the operational safety regulation "Betriebs-sicherheitsverordnung"	VCI 13 not applicable
7.3 Specific end use(s):	No further relevant information available.
8. Exposure controls / personal protection	
Additional information for the set-up of technical plants:	No further information, see art. 7.
8.1 Control parameter: 10034-76-1 Calcium sulphate x 0.5 H ₂ O AGW (Germany) 6 A mg/m ³ applicable for CAS: 7778-18-9 Calcium sulphate waterfree CAS no. designation of the substance % type value unit The general dust threshold from the Technical Rules for Hazardous Materials "TRGS" 900 (2009) 1,25 mg/m ³ is to be taken into account for the alveolar dust proportion. Additional information: Information based on the lists valid during the issue.	
8.2 Exposure controls: Personal protective equipment	Wear safety shoes. Respiratory protection: Under insufficient ventilation: respiratory protection. Short-term filter device: ABEK multipurpose filter Filter P1. (for solid particles, DIN 3181) Protective gloves: not required Material of gloves: not applicable Breakthrough time of the glove material: not applicable Eye protection: Protective goggles (DIN 58211, EN 166) Body protection: Light protective equipment



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General protection and hygiene measures:	The usual precautions when dealing with chemicals must be observed. Wash hands before breaks and after finishing work. Avoid eye contact								
9. Physical and chemical properties									
9.1 Information on basic physical and chemical properties									
Form: Colour: Odour: Odour threshold: pH-value (10 g/l) at 20°C Melting point/range Boiling point/range Flashpoint Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Risk of explosion: Explosion thresholds: lower: upper: Oxidizing properties: Vapour pressure: Density at 20°C: Bulk density at 20°C: Solubility in / miscibility with water at 20°C: partition coefficient n-octanole/water): viscosity: dynamic: kinematic:	solid according to the product description odourless not applicable 5 - 7 (suspension) only for Adenta Superhatgips Typ IV:4 - 8 (suspension) > 1400°C Not determined Not applicable Not applicable Not applicable Not applicable Not determined This product is not explosive. Not applicable Not applicable none Not applicable 2.6 g/cm ³ 1100 - 1200 kg/m ³ 2 g/l not determined Not applicable Not applicable								
9.2 Other information	No further relevant information available.								
10. Stability and reactivity									
10.1 Reactivity: 10.2 Chemical stability: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid: 10.5 Incompatible materials 10.6 Hazardous decomposition products	Not applicable Not applicable Not applicable Not applicable Not applicable Sulphur trioxide (SO ₃) temp. > 1000°C								
11. Toxicological information									
Information on toxicological effects LD/LC50 values for classification: Primary irritant effect:	<table border="1" data-bbox="520 1912 1182 1962"> <thead> <tr> <th>Component</th> <th>Type</th> <th>Value</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>Product</td> <td>LD50: orally</td> <td>> 2000 mg/kg</td> <td>rat</td> </tr> </tbody> </table> at the skin: No irritation in the eye: Moderately irritating Sensitization: No sensitizing effect known.	Component	Type	Value	Species	Product	LD50: orally	> 2000 mg/kg	rat
Component	Type	Value	Species						
Product	LD50: orally	> 2000 mg/kg	rat						



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Additional toxicological information:	When used and handled properly, the product does not cause any harm to health according to our experience and information. This product need not be labelled due to the calculation procedure of the "EC General Classification Directive for Preparations" in its latest valid version.
Toxicity when taken in repeatedly:	No further relevant information available.
12. Information about the ecology:	
12.1 Toxicity:	No results known from animal testing.
12.2 Persistence and degradability:	No further relevant information available.
Other information:	Inorganic salts are generally not biodegradable. Evaluation: well eliminable Elimination by flocculation or adsorption to sludge
12.3 Bioaccumulative potential:	Due to the distribution coefficient n-octanole/water an accumulation in organisms need not be expected. not applicable
12.4 Mobility in soil:	No further relevant information available.
Other information:	No AOX, No CSB, No BSB No VOC under EC Directive 1999/13/EC
Further ecologic information:	none
12.5 Results of the PBT and vPvB assessment:	Not applicable
12.6 Other adverse effects:	No further relevant information available.
13. Disposal considerations	
13.1 Waste treatment methods	Recommendation: Smaller quantities can be dumped with the household garbage. Can be dumped with household garbage when the technical regulations are observed and the responsible authority has been consulted. European Waste Catalogue 06 03 14: solid salts and solutions except those under 06 03 11 and 06 03 13 Uncleaned packages: Recommendation: Contaminated packages must be emptied optimally and can be reused after cleaning. Packages that cannot be cleaned are to be disposed of like the substance. The packaging is to be disposed of in accordance with the packaging ordinance. Recommended cleaning agent: Water, add detergents if required.
14. Transport information	
14.1 UN number:	not applicable
14.2 UN proper shipping name:	not applicable
14. Transport hazard classes:	not applicable
14.4 Packing group	
14.6 Special precautions for user:	not applicable



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<p>14.7 Transport in bulk according to Annex II of MARPOL73/78 Convention and the IBC Code:</p> <p>Transport / further information:</p>	<p>not applicable</p> <p>not applicable No hazardous material in the sense of the transport regulations</p>
15. Regulatory information	
<p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:</p> <p>15.2 Chemical safety assessment:</p>	<p>Labelling according to EC Directives: According to the EU Directives and the Ordinance on Hazardous Substances, the product is not subject to marking.</p> <p>Classification according to the Operational Safety Regulation not applicable</p> <p>German Water Hazard Class Water hazard class WGK 1: slightly hazardous to water (according to VwVwS (= German Regulation on Water Hazard Classification) dated 27 July 2005)</p> <p>Code letter(s) and hazard description(s) of the product not applicable</p> <p>Other regulations, limitations and prohibition ordinances: ZH 1/134 "Atenschutzmerkblatt" Memorandum on Respiratory Protection The general dust threshold for the alveolar dust proportion of 3 mg/m3 is to be taken into consideration (TRGS 900, 2009) ZH 1/401 "MAK values (TRGS 900)"</p> <p>Hazard-determining components of labelling: Not applicable</p> <p>No substance safety assessment has been carried out.</p>
16. Other information	
<p>The information is based on our present state of knowledge, they do not constitute a guarantee of product properties and do not establish a contractual relationship. However, Adentatec GmbH does not assume any explicit or implicit guarantee or warranty as to the correctness, reliability or completeness of the information. Adentatec GmbH advises any person receiving this information, not to use the product for any other use than the intended use described in section 1.2. The user shall be responsible for complying with all the necessary legal regulations.</p> <p>The product must be used by qualified and trained dental technicians, who are aware of the correct use and can be held responsible in case of improper use.</p>	
<p>Abbreviations and definitions</p>	<p>ADR: Accord européen sur le transport des marchandises dangereuses par route</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>CLP: Classification Labelling Packaging</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>GHS: Globally Harmonized System Hazard statement</p> <p>IATA: International Air Transport Association</p> <p>IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)</p> <p>ICAO: International Civil Aviation Organization</p> <p>ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal dose, 50 percent</p>



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	<p>Precautionary statement: Precautionary statement</p> <p>PBT: Provider Backbone Transport</p> <p>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</p> <p>vPvB: very persistent very bioaccumulating</p>
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