

Safety Data Sheet

According to 91/155 EWG (2001/58/EG)

1. Identification of substance

Trade name: ADENTA-VEST PA
ADENTA-VEST CB
Product details: Investment
Product form: Powder
Manufacturer: Adentatec GmbH
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2. Composition/Data on components

Dangerous components:

CAS: 14808 – 60 – 7	Quartz	40 – 70 %
EINECS: 238 – 878 - 4		
CAS: 14464 – 46 – 1	Cristobalite	10 – 50 %
EINECS: 238 – 455 – 4		
CAS : 7722 – 76 – 4	Ammonium dihydrogene orthophosphate	5 – 19
EINECS : 231 – 764 - 5		
CAS: 7440-48-4	Magnesium oxide (MgO)	4 – 17 %
EINECS: 231-158-0		

Chemical characterization: Mixture of Silicon oxide, mono-ammonium-phosphate, Magnesium oxide and additives

3. Hazards identification

Information pertaining to particular dangers for man and environment: Quartz and cristobalite dust may cause silicosis. Quartz dust identifies popular lung (Alveo) dust, which contains crystalline, silicon oxide (Quartz, Cristobalite, Tridymite). This dust can occur during the handling especially with the processing of quartz-containing materials.

4. First aid measures

skin: Wash off with plenty of water and soap
Inhaling: Fresh air. In case of disorders, please contact a doctor.
Swallowing: Do not initiate vomiting. Contact a doctor
Eye contact: Rinse opened eye for approx. 15 min under running water

5. Fire fighting measures

Suitable extinguishing agents: Product does not burn
Specific hazards during fire fighting: Ammonia forms if heated above 200 °C
Protective equipment: No special measures required

6. Accidental release measures

Person-related safety precautions: In case of release dust/Aerosol only work with a protection mask. Constantly wash dirty clothes. Take off dirty clothes after work.
Measures for cleaning/collecting: Collect mechanically. Prevent formation of dust

7. Handling and storage

Handling: Always wear protection mask
Information for safe handling: Arrange good ventilation/exhaustion at workplace. Prevent formation of dust
Storage and container: Keep container tightly closed, store dry, prevent formation of dust
Information about storage in one common storage facility: No special requirements

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8. Exposure controls and personal protection

Additional information about design of technical systems:	Arrange good ventilation/exhaustion at workplace. A convenient inhalation protection has to be worn when exceeding the accepted limit of values at the workplace and/or in case of release of large bulks (leakage, spill, dust).
Components with critical values that require monitoring at the workplace:	Particulate matter MAK 0,15 mg/m ³ (popular alveo fractions) 14808 – 60 – 7 Quartz Particulate matter MAK 0,15 mg/m ³ (popular alveo fractions) 14464 – 46 – 1 Cristobalite Particulate matter MAK 6 mg/m ³ (popular alveo fractions) 1309 – 48 – 4 Magnesium oxide
Additional information:	The lists that were valid during the compilation were used as basis
Personal protective equipment:	
General protective and hygienic measures:	Do not inhale dust! The usual precautionary measures should be adhered in handling the chemicals
Breathing equipment:	Filter device – Filter FFP2
Protection for hands:	Not required
Material of gloves:	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer
Penetration time of glove material:	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed
Eye protection:	Safety glasses

9. Physical and chemical properties

Form:	powder
Colour:	white - grey
Smell:	almost odourless
Change in condition:	
Flash point:	not applicable
Ignition point:	–
Melting point:	2000 °C
Bulk density:	1 – 1,1 g/cm ³
Solubility in / Miscibility with water:	hardly soluble
pH:	approx. 5

10. Stability and reactivity

Thermic disruption:	> 200 °C
Dangerous reactions:	No dangerous reactions known
Dangerous products of composition:	Ammonia, water steem

11. Toxicological information

Acute toxicity:	
Primary irritant effect:	
On the skin:	No irritant effect
On the eye:	Mecanical mucous lining may occur
Respiratory tract:	Mecanical mucous lining may occur

12. Ecological information

General notes according to VwVwS:	Water hazard class 1 – slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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13. Disposal considerations

Product:	
Recommendation:	Must not be disposed of together with household garbage. Disposal according to local authority regulations.
European waste catalogue:	10 10 05 casting cores and moulds which have not undergone pouring, containing dangerous substance 10 10 07 casting cores and moulds which have not undergone pouring, containing dangerous substance
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

14. Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic):	–
Maritime transport IMDG/GGV Sea:	–
Air transport ICAO-TI and IATA-DGR:	–
Transport/ other information:	Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

Designation according to EC guidelines:	Observe the normal safety regulations when handling with chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
National regulations:	
General Classification Guideline for Preparations of the EC (BetrSichV):	–
Water hazard class:	Water hazard class 1 (calculated according to VwVwS): slightly hazardous for water

16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Contact: Adentatec GmbH