

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

- **1.1 Product identifier**
- **Trade name:** *Active Mineral Desiccant*
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Desiccant*
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Zhejiang Nanhua Biological Technology Co., Ltd.*  
*Building 2, No.129 Yunxing Road, Xieqiao Town, Haining City,*  
*Zhejiang Province, China 314406*  
*E-mail: linda@hnnanhua.com*
- **Only Representative / other EU contact point:** *Not available*
- **Further information obtainable from:**  
*Zhejiang Nanhua Biological Technology Co., Ltd.*
  
- **1.4 Emergency telephone number:**  
*HONGQING ZHANG*  
*Tel: 15657305899*
  
- GERMANY*  
*Poison Center Berlin - Institute of Toxicology*  
*Tel: +49 030 192 40*
  
- **1.5 Reference Number:** *SP19-028409-SH; SHAEC1918291901*

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- Skin Irrit. 2 H315 Causes skin irritation.*
- Eye Irrit. 2 H319 Causes serious eye irritation.*
- **Information concerning particular hazards for human and environment:**  
*The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.*
- **Classification system:**  
*The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to CLP Regulation.*
- **Hazard pictograms**



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- **Signal word** *Warning*
- **Hazard-determining components of labelling:** *Not applicable*
- **Hazard statements**  
*H315 Causes skin irritation.*  
*H319 Causes serious eye irritation.*
- **Precautionary statements**  
*P101 If medical advice is needed, have product container or label at hand.*

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- P102                    *Keep out of reach of children.*
- P103                    *Read label before use.*
- P264                    *Wash thoroughly after handling.*
- P280                    *Wear protective gloves / eye protection / face protection.*
- P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P332+P313            *If skin irritation occurs: Get medical advice/attention.*
- P362+P364            *Take off contaminated clothing and wash it before reuse.*
- P337+P313            *If eye irritation persists: Get medical advice/attention.*

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**  
*Mixture of the substances listed below with nonhazardous additions.*  
*For the wording of the listed hazard statements refer to section 16.*

- **Composition:**

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO <sub>2</sub> ) substance with a Community workplace exposure limit	60.1%
CAS: 10043-52-4 EINECS: 233-140-8 Index number: 017-013-00-2	calcium chloride ⚠ Eye Irrit. 2, H319	19.75%
CAS: 1344-28-1 EINECS: 215-691-6	aluminium oxide substance with a Community workplace exposure limit	8.82%
CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide substance with a Community workplace exposure limit	5.24%
CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide substance with a Community workplace exposure limit	2.86%
CAS: 12136-45-7 EINECS: 235-227-6	dipotassium oxide ⚠ Skin Corr. 1A, H314	1.1%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	1.1%
CAS: 1305-78-8 EINECS: 215-138-9	calcium oxide ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	0.53%
CAS: 1344-43-0 EINECS: 215-695-8	manganese oxide	0.35%
CAS: 1313-59-3 EINECS: 215-208-9	disodium oxide ⚠ Skin Corr. 1B, H314	0.15%

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General description:** *Immediately remove any clothing soiled by the product.*
- **After inhalation:**  
*If overcome by dust or smoke, move to fresh air environment. If breathing becomes difficult consult a physician.*
- **After skin contact:**  
*In case of skin contact, flush with soap and water. If irritation persists, get medical attention*

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- **After eye contact:**  
*In case of eye contact immediately flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention*
- **After swallowing:**  
*Do not induce vomiting unless there is a article medical personnel's permission. Don't put anything into a unconscious people mouth, loose clothing, such as a collar, tie, belt or waistband, immediately go to a doctor if symptoms.*
- **4.2 Most important symptoms and effects, both acute and delayed**  
*No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*
- **5.3 Advice for firefighters**
- **Protective equipment:**  
*Mouth respiratory protective device.  
Wear fully protective suit.*

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
*Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.*
- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**  
*Pick up mechanically.  
Dispose contaminated material as waste according to item 13.*
- **6.4 Reference to other sections**  
*See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.*

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
*Ensure good ventilation/exhaustion at the workplace.  
Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.*
- **Information about fire - and explosion protection:** *Normal measures for preventive fire protection.*

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- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Do not store together with acids.  
Do not store together with alkaline materials.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**14808-60-7 Quartz (SiO<sub>2</sub>) (60.1%)**

BOELV (EU)	Long-term value: 0.1* mg/m <sup>3</sup> *respirable fraction
MAK (Germany)	alveolengängige Fraktion
VME (France)	Long-term value: 0.1 mg/m <sup>3</sup> pour la fraction alvéolaire

**1344-28-1 aluminium oxide (8.82%)**

AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**eintembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

**1309-48-4 magnesium oxide (5.24%)**

AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**eintembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

**1309-37-1 diiron trioxide (2.86%)**

AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**eintembar; AGS, DFG
VME (France)	Long-term value: 5 mg/m <sup>3</sup>

**13463-67-7 titanium dioxide (1.1%)**

AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**eintembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

**1305-78-8 calcium oxide (0.53%)**

IOELV (EU)	Short-term value: 4 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> Respirable fraction
AGW (Germany)	Long-term value: 1E mg/m <sup>3</sup> 2(I); Y, DFG
VME (France)	Long-term value: 2 mg/m <sup>3</sup>

· **Regulatory information**

BOELV (EU): 98/24/EG  
MAK (Germany): MAK- und BAT-Liste  
VME (France): ED 984, 10.2016  
AGW (Germany): TRGS 900

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- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
  - See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:**
  - Use appropriate respirator, it is recommended to avoid potential respiratory irritation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**
  - Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **Appearance:**

<b>Form:</b>	Ball granule
<b>Colour:</b>	Gray
  - **Odour:** Weak odour
  - **Odour threshold:** Data not available
- |   |            |
|---|------------|
| · <b>pH-value (100 g/l) at 25 °C:</b>             | 7±1        |
| · <b>Melting point/freezing point:</b>            | 1650±50 °C |
| · <b>Initial boiling point and boiling range:</b> | 2,230 °C   |

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· <b>Flash point:</b>	Data not available
· <b>Flammability (solid, gas):</b>	Data not available
· <b>Auto-Ignition temperature:</b>	Data not available
· <b>Decomposition temperature:</b>	Data not available
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Data not available
Upper:	Data not available
· <b>Oxidising properties</b>	Data not available
· <b>Vapour pressure:</b>	Data not available
· <b>Density:</b>	2 g/cm <sup>3</sup>
· <b>Relative density</b>	2 ~2.7
· <b>Vapour density</b>	Data not available
· <b>Evaporation rate</b>	Data not available
· <b>Solubility in / Miscibility with water:</b>	Data not available
· <b>Partition coefficient: n-octanol/water:</b>	Data not available
· <b>Viscosity:</b>	
Dynamic:	Data not available
Kinematic:	Data not available
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Strong acid and alkali
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### 1309-37-1 diiron trioxide

Oral	LD50	>5,000 mg/kg (rat)
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##### 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

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- **Skin corrosion/irritation:**  
Causes skin irritation.
- **Serious eye damage/irritation:**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation:** 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.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |                                       |   |
|--|---------------------------------------|---|
| · <b>14.1 UN-Number</b>                  | · <b>ADR/RID/ADN, IMDG, IMO, IATA</b> | Not regulated                                 |
| · <b>14.2 UN proper shipping name</b>    | · <b>ADR/RID/ADN, IMDG, IMO, IATA</b> | Not regulated                                 |
| · <b>14.3 Transport hazard class(es)</b> | · <b>ADR/RID/ADN, IMDG, IMO, IATA</b> | The substance is not subject to IMO IMDG Code |
| · <b>Class</b>                           | · <b>Label</b>                        | Not regulated<br>Not regulated                |

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- |  |                 |
|--|-----------------|
| · <b>14.4 Packing group</b>  |                 |
| · <b>ADR/RID/ADN, IMDG, IMO, IATA</b>  | Not regulated   |
| · <b>14.5 Environmental hazards</b>  | Not applicable. |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Not applicable  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **MAK (German Maximum Workplace Concentration)**

14808-60-7	Quartz (SiO <sub>2</sub> )	1
1344-28-1	aluminium oxide	2
13463-67-7	titanium dioxide	3A

- **Directive 2012/18/EU**  
 · **Named dangerous substances - ANNEX I** None of the ingredients is listed.  
 · **National regulations:**  
 · **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.  
 · **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (16/7/2019)**

None of the ingredients is listed.

- **REACH Regulation Annex XVII Restriction (20/6/2019)**  
 See Section 16 for information about restriction of use.

None of the ingredients is listed.

- **REACH Regulation Annex XIV Authorization List (13/6/2017)**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Relevant hazard statements**

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- **Classification according to Regulation (EC) No 1272/2008**

Skin corrosion/irritation Serious eye damage/eye irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions

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*or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.*

**Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*

*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

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