

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - **Trade name:** Silica Gel
 - **UFI:** NA00-C0F3-300E-Q2JG
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 - **Application of the substance / the mixture:** Moisture-proof
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Shanghai SWMPOOL Ind.
Unit 4, No.299 Wanhong Road Shanghai China
Tel: +86-(0)21-65550950
Email: swmpool@126.com
 - **Only Representative/ other EU contact point:** Not available
 - **Further information obtainable from:** Shanghai SWMPOOL Ind.
- **1.4 Emergency telephone number:**
Tel: +86-13917489820

GERMANY
Poison Center Berlin - Institute of Toxicology
Tel: +49 030 192 40

2 Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
 - **Information concerning particular hazards for human and environment:**
The product has not 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 Regulation (EC) No 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008** Not applicable.
 - **Hazard pictograms** Not applicable.
 - **Signal word** Not applicable.
 - **Hazard-determining components of labelling:** Not applicable.
 - **Hazard statements** Not applicable.
 - **Precautionary statements** Not applicable.
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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: 60676-86-0 Silica, fused

99.58%

EINECS: 262-373-8 substance with a Community workplace exposure limit

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CAS: 1344-28-1	Aluminium oxide	0.18%
EINECS: 215-691-6	substance with a Community workplace exposure limit	
CAS: 1313-59-3	Disodium oxide	0.17%
EINECS: 215-208-9	⚠ Skin Corr. 1B, H314, EUH014	
CAS: 1305-78-8	Calcium oxide	0.04%
EINECS: 215-138-9	⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 1332-37-2	Iron oxide	0.02%
EINECS: 215-570-8	substance with a Community workplace exposure limit	
CAS: 1309-48-4	Magnesium oxide	0.01%
EINECS: 215-171-9	substance with a Community workplace exposure limit	

4 First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

· 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.

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.

· **Protective equipment:**

Mouth respiratory protective device.

Wear fully protective suit.

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 section 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with eyes and skin.

For the general occupational hygienic measures refer to Section 8.

Information about fire - and explosion protection: Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

60676-86-0 Silica, fused

MAK (Austria) Long-term value: 0.3 A mg/m³VL (Belgium) Long-term value: 2* 0.1** mg/m³

*fumées (fract. alv.) **silice fondue (pouss. alv.)

AGW (Germany) Long-term value: 0.3 A mg/m³

DFG, Y

WEL (Great Britain) Long-term value: 0.08 mg/m³

fused respirable dust

NDS (Poland) Long-term value: 2* 1** mg/m³

*frakcja wdychalna, **frakcja respirabilna

1344-28-1 Aluminium oxide

MAK (Austria) Short-term value: 20 E 10 A* mg/m³Long-term value: 10 E 5 A* mg/m³

*Rauch

VL (Belgium) Long-term value: 1 mg/m³

Fraction alvéolaire

AGW (Germany) Long-term value: 1.25* 10** mg/m³

2(II), *alveolengängig **eintembar; AGS, DFG, Y

VLEP (France) Long-term value: 10 mg/m³WEL (Great Britain) Long-term value: 10* 4** mg/m³

*inhalable dust **respirable dust

NDS (Poland) Long-term value: 2.5* 1.2** mg/m³

frakcja *wdychalna, **respirabilna

1305-78-8 Calcium oxide

IOELV (EU) Short-term value: 4 mg/m³Long-term value: 1 mg/m³

Respirable fraction

MAK (Austria) Short-term value: 4 E mg/m³Long-term value: 1 E mg/m³VL (Belgium) Short-term value: 4 mg/m³Long-term value: 1 mg/m³

fraction alvéolaire

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AGW (Germany)	Long-term value: 1E mg/m ³ 2(I);Y, DFG
VLEP (France)	Short-term value: 4 mg/m ³ Long-term value: 1 mg/m ³
WEL (Great Britain)	Short-term value: 4* mg/m ³ Long-term value: 2 1* mg/m ³ *respirable fraction
NDS (Poland)	Short-term value: 6* 4** mg/m ³ Long-term value: 2* 1** mg/m ³ frakcja *wdychalna, **respirabilna
HTP (Finland)	Short-term value: 4 mg/m ³ Long-term value: 1 mg/m ³

1332-37-2 Iron oxide

VL (Belgium)	Long-term value: 1 mg/m ³ en Fe
HTP (Finland)	Long-term value: 1 mg/m ³ Fe

1309-48-4 Magnesium oxide

MAK (Austria)	Short-term value: 20 E 10 A 20 A* mg/m ³ Long-term value: 10 E 5 A* mg/m ³ *Rauch
VL (Belgium)	Long-term value: 10 mg/m ³ fumées
AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**eintembar; AGS, DFG, Y
VLEP (France)	Long-term value: 10 mg/m ³
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ (as Mg) *inhalable dust **fume and respirable dust
NDS (Poland)	Long-term value: 10 mg/m ³ frakcja wdychalna

Regulatory information

MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II
VL (Belgium): Moniteur belge no 148, 27.05.21
AGW (Germany): TRGS 900
WEL (Great Britain): EH40/2020
NDS (Poland): Dz.U. 2021 poz. 325, 18.02.21
VLEP (France): ED 1487 05.2021
IOELV (EU): (EU) 2019/1831
HTP (Finland): 654/2020

- **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 the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Hand protection**



Protective gloves

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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/face protection**



Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

White

· **Odour:**

Odourless

· **Odour threshold:**

Data not available.

· **Melting point/freezing point:**

Data not available.

· **Boiling point or initial boiling point and boiling range**

Data not available.

· **Flammability**

Data not available.

· **Lower and upper explosion limit**

· **Lower:**

Data not available.

· **Upper:**

Data not available.

· **Flash point:**

Data not available.

· **Auto-ignition temperature:**

Data not available.

· **Decomposition temperature:**

Data not available.

· **pH**

Data not available.

· **Viscosity:**

· **Kinematic viscosity**

Data not available.

· **Dynamic:**

Data not available.

· **Solubility**

· **water:**

Data not available.

· **Partition coefficient (n-octanol/water):**

Data not available.

· **Vapour pressure:**

Data not available.

· **Density and/or relative density**

· **Density:**

Data not available.

· **Relative density:**

Data not available.

· **Vapour density:**

Data not available.

· **Particle characteristics**

See section 3.

· **9.2 Other information**

· **Appearance:**

· **Form:**

Solid

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- **Important information on protection of health and environment, and on safety.**
- **Self-igniting:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Change in condition:**
- **Softening point/range**
- **Oxidizing properties:** Data not available.
- **Evaporation rate:** Data not available.
- **Information with regard to physical hazard classes**
- **Explosives** Data not available.
- **Flammable gases** Not applicable.
- **Aerosols** Not applicable.
- **Oxidising gases** Not applicable.
- **Gases under pressure** Not applicable.
- **Flammable liquids** Not applicable.
- **Flammable solids** Data not available.
- **Self-reactive substances and mixtures** Data not available.
- **Pyrophoric liquids** Not applicable.
- **Pyrophoric solids** Data not available.
- **Self-heating substances and mixtures** Data not available.
- **Substances and mixtures, which emit flammable gases in contact with water** Data not available.
- **Oxidising liquids** Not applicable.
- **Oxidising solids** Data not available.
- **Organic peroxides** Data not available.
- **Corrosive to metals** Data not available.
- **Desensitised explosives** Data not available.

10 Stability and reactivity

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

11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
- **1344-28-1 Aluminium oxide**
- Oral LD50 >5,000 mg/kg (rat)
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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.

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11.2 Information on other hazards
Endocrine disrupting properties

None of the ingredients is listed.

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 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:** Not hazardous for water.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **14.1 UN number or ID number**
- **ADR/RID/ADN, IMDG, IATA** Not applicable.
- **14.2 UN proper shipping name**
- **ADR/RID/ADN, IMDG, IATA** Not applicable.
- **14.3 Transport hazard class(es)**
- **ADR/RID/ADN, IMDG, IATA**
- **Class** Not applicable.
- **14.4 Packing group**
- **ADR/RID/ADN, IMDG, IATA** Not applicable.
- **14.5 Environmental hazards** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **14.8 Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Not applicable.

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15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK(German Maximum Workplace Concentration)**

1344-28-1 Aluminium oxide: 2
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Generally not hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate List of REACH Regulation Annex XIV Authorisation**

None of the ingredients is listed.
- **REACH Regulation Annex XVII Restriction**

See Section 16 for information about restriction of use.

None of the ingredients is listed.
- **REACH Regulation Annex XIV Authorisation List**

None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

- **Relevant hazard statements**
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H335 May cause respiratory irritation.
 - EUH014 Reacts violently with water.
- **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

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 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.

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In addition, transport information of Section 14 in the report was calculated theoretically, while the results are not always consistent with Certification for Safe Transport of Chemical Goods from the officially authorized agencies. Please consult the officially authorized agencies for the accurate transport information.

Abbreviations and acronyms:

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

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

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