

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## SIOGEL®, WHITE

Date of issue: 22.11.2016

Revision date: 06.06.2019

Version: 4.1

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

#### 1.1. Product identifier

Product form : Substance  
Product name : SIOGEL®, WHITE  
Substance name : Silicon dioxide  
EC no : 231-545-4  
CAS no : 7631-86-9  
Registration no : 01-2119379499-16-0083

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Industrial use. Professional use.  
Use of the substance/mixture : Manufacture of textiles, paper, pulp, chemical products, rubber products, plastic products, electronic components, optical components  
Agent for water treatment  
Mixing, impregnation, filling, spraying  
Personal care, home care  
Biocide substances, colouring agents, dyes, fillers, lubricants, pH-regulating agents, tanning agents, fuel

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Oker-Chemie GmbH  
Im Schleeke 77  
38642 Goslar  
Tel.: +49 (0)5321 75153415

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: [sds@dlac-gmbh.de](mailto:sds@dlac-gmbh.de)

#### 1.4. Emergency telephone number

| Country | Organisation/Company  | Address                                  | Emergency number                   |
|---------|---|--|------------------------------------|
| Germany | Giftinformationszentrum (GIZ-Nord)<br>Zentrum Pharmakologie und Toxikologie der Universität Göttingen | Robert-Koch Straße 40<br>37075 Göttingen | +49 551 19240<br>(German, English) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, the product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to Regulation (EC) No. 1272/2008 [CLP] labelling is not required

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance name : Silicon dioxide  
EC no : 231-545-4  
CAS no : 7631-86-9

| Name            | Product identifier   | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|--|------|---|
| Silicon dioxide | (CAS no) 7631-86-9<br>(EC no) 231-545-4<br>(Registration no) 01-2119379499-16-0083 | ≥ 93 | Not classified  |

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Full text of H-phrases: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Drink plenty of water as a precaution.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Adapt extinguishing agents to the environment. Carbon dioxide. Dry extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : The product itself does not burn.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation. Do not breathe dust.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate the danger area.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing. Self-contained breathing apparatus

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid dust formation.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store tightly closed in a dry and cool place. Never return unused material to original container. Keep container closed when not in use.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Silicon dioxide (7631-86-9) |  |   |
|-----------------------------|--|---|
| Ireland                     | Local name                             | Silica, amorphous   |
| Ireland                     | OEL (8 hours ref) (mg/m <sup>3</sup> ) | 6 mg/m <sup>3</sup> (total inhalable dust)<br>2.4 mg/m <sup>3</sup> (respirable dust) |
| United Kingdom              | Local name                             | Silica, amorphous   |
| United Kingdom              | WEL TWA (mg/m <sup>3</sup> )           | 6 mg/m <sup>3</sup> (inhalable dust)<br>2.4 mg/m <sup>3</sup> (respirable dust)       |

### 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize exposure to dust.  
Hand protection : Not required. In case needed, wear suitable gloves (EN 374). Nitrile rubber. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
Eye protection : Not required. In case needed, wear safety glasses (EN 166).  
Skin and body protection : Not required. In case needed, wear suitable protective clothing.  
Respiratory protection : No respiratory protection needed under normal use conditions. If the occupational exposure limit is exceeded or dust production: dust mask with filter type P1.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance : White granules/beads  
Odour : Odourless  
Odour threshold : Not applicable  
pH : 3.5 - 8.0 (50 g/L H<sub>2</sub>O at 20 °C)  
Melting point/freezing point : > 1700 °C  
Initial boiling point and boiling range : No data available  
Flash point : Not applicable  
Evaporation rate : No data available  
Flammability (solid, gas) : Not flammable  
Upper/lower flammability or explosive limits : No data available  
Vapour pressure : No data available  
Vapour density : No data available  
Relative density : No data available  
Density : No data available  
Solubility(ies) : No data available  
Partition coefficient: n-octanol/water : No data available  
Auto-ignition temperature : Not auto-flammable  
Decomposition temperature : Not applicable  
Viscosity : Not applicable  
Explosive properties : Not explosive  
Oxidising properties : No oxidising properties

### 9.2. Other information

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Bulk density : 350 - 780 kg/m<sup>3</sup>  
Burning number : 1  
Flammability (contact with water) : Not flammable

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

No conditions to avoid known.

#### 10.5. Incompatible materials

No incompatible materials known.

#### 10.6. Hazardous decomposition products

No Hazardous decomposition products known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
Based on available data, the classification criteria are not met.  
LD50 oral rat: > 3 100 mg/kg (OECD 401)  
LD50 dermal rabbit: > 5 000 mg/kg  
LC0 inhalation rat: 0.14 mg/L, 4 h (OECD 403)

Skin corrosion/irritation : Not classified  
Based on available data, the classification criteria are not met.  
Rabbit, result: no skin irritation, 4 h (OECD 404)

Serious eye damage/irritation : Not classified  
Based on available data, the classification criteria are not met.  
Rabbit, result: mild eye irritation, 4 h (OECD 405)

Respiratory or skin sensitisation : Not classified  
Based on available data, the classification criteria are not met.  
Patch test on human volunteers did not demonstrate sensitisation properties.

Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met.  
Ames test - Test species: Salmonella typhimurium, E. coli with and without metabolic activation, result: negative (OECD 471)  
Chromosome aberration test in vitro - Test species: Chinese hamster ovary (CHO) cells with and without metabolic activation, result: negative (OECD 473)  
In vitro tests did not show mutagenic effects.

Carcinogenicity : Not classified  
Based on available data, the classification criteria are not met.

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Not classified  
Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met.  
NOAEL oral rat: ≥ 4 000 mg/kg, 90 days (OECD 408)

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Aspiration hazard : Not classified  
Based on available data, the classification criteria are not met.

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : This product contains no hazardous components for the aquatic environment.

Acute aquatic toxicity : Not classified  
Toxicity fish LL0 (Danio rerio): 10 000 mg/L, 96 h, Read across (OECD 203)  
Toxicity daphnia EL0 (Daphnia magna): 1 000 mg/L, 24 h, Read across (OECD 202)  
Toxicity algae EL50 (Scenedesmus subspicatus): > 10 000 mg/L, 72 h, Read across (Testsubstanz: Aluminiumnatriumsilikat) (OECD 201)

Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

BCF : 3.16 L/kg wet-wt  
BAF : 1.09 L/kg wet-wt

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

This product does not meet the PBT- or vPvB criteria of REACH regulation, annex XIII.

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : Do not empty into drains.

Waste code : The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

#### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

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### IATA

Transport hazard class(es) (IATA) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

Not applicable

##### - Transport by sea

Not applicable

##### - Air transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Silicon dioxide is not on the REACH Candidate List

Silicon dioxide is not on the REACH Annex XIV List

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

Chemical safety assessments for this substance were carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to earlier Versions : Section 2.1.

### Silicon dioxide (7631-86-9)

Listed on: EINECS/REACH (Europe)

Listed on: TSCA (Toxic Substances Control Act Inventory) (USA)

Listed on: DSL (Domestic Substances List) (Canada)

Listed on: AICS (Australian Inventory of Chemical Substances)

Listed on: IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on: ENCS (Existing and New Chemical Substances) (Japan, MITI-Inventory)

Listed on: KECL (Korean Existing Chemicals List)

Listed on: PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on: TCSI (Taiwan's chemical substance inventory)

### Abbreviations and acronyms:

|      |   |
|------|---|
| ADR  | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| BAF  | Bioaccumulation factor  |
| BCF  | Bioconcentration factor   |
| EC50 | Median effective concentration  |
| IATA | International Air Transport Association   |
| IMDG | International Maritime Dangerous Goods  |

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|       |   |
|-------|---|
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| LL0   | Lethal Load for 0 %   |
| LOAEL | Lowest Observed Adverse Effect Level  |
| NOAEC | No-Observed Adverse Effect Concentration  |
| NOAEL | No-Observed Adverse Effect Level  |
| NOEC  | No-Observed Effect Concentration  |
| OECD  | Organisation for Economic Co-operation and Development  |
| PBT   | Persistent Bioaccumulative Toxic  |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| SDS   | Safety data sheet   |
| vPvB  | Very Persistent and Very Bioaccumulative  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*