SAFETY DATA SHEET
Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 453/2010)

Version 1  Issue Date 04-Nov-2014
Product Name  Silicon dioxide  Revision date 04-Nov-2014

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

1.1. Product identifier
Product Name  Silicon dioxide
CAS No  7631-86-9
REACH registration number  01-2119379499-16-0121

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use  Used in a wide variety of industrial applications.
Uses advised against  No information available

1.3. Details of the supplier of the safety data sheet
Only representative  REACH24H CONSULTING GROUP
Address  Suite 1E, Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland
E-mail  Info@reach24h.com
Supplier  Shandong Sinchem Slica Gel Co., Ltd.
Address  Dongguo Town, Tengzhou City, Shandong Province, China
Postal Code  277533
Phone  +86-632-2529217
FAX  +86-632-2528007
E-mail  sinchem@188.com

1.4. Emergency telephone number
+86-632-2529217

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified

2.2. Label elements
Symbols/Pictograms  None
Signal word  None
Hazard Statements  Not applicable
Precautionary Statements  Not applicable

2.3. Other hazards
No information available

**SECTION 3: Composition/information on ingredients**

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Classification according to Directive 67/548/EEC or 1999/45/EC</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide</td>
<td>231-545-4</td>
<td>7631-86-9</td>
<td>&gt;98%</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**SECTION 4: First aid measures**

4.1. Description of first aid measures

General advice
Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

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

No information available

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
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
No information available

5.2. Special hazards arising from the substance or mixture

No information available

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas
Avoid creating dust
Avoid contact with eyes and skin
Use personal protective equipment as required
6.2. Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas

6.3. Methods and material for containment and cleaning up
Pick up and transfer to properly labeled containers
Avoid generation of dust

6.4. Reference to other sections
See Section 7 for more information
See section 8 for more information
See section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice
Ensure adequate ventilation, especially in confined areas
Avoid contact with skin and eyes
Avoid generation of dust
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Wash contaminated clothing before reuse

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place
Keep locked up and out of reach of children
Keep away from food, drink and animal feeding stuffs
Store in accordance with local regulations

7.3. Specific end use(s)
No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Australia</th>
<th>Austria</th>
<th>Belgium</th>
<th>Denmark</th>
<th>European Union</th>
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</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS #: 7631-86-9)</td>
<td>2 mg/m³</td>
<td>TWA: 4 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TWA: 0.3 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL)
Inhalation Worker - inhalative, long-term - systemic 4 mg/m³

Predicted No Effect Concentration (PNEC)
No information available.

8.2. Exposure controls
Engineering Controls
Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye/face protection Wear safety glasses with side shields (or goggles)
Hand Protection Wear protective gloves
Skin and body protection Suitable protective clothing
Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance  Solid
Color       White
Odor        Odorless
Odor Threshold  Not determined
pH           7 (20 °C, 100 g/L)
Melting point/freezing point  1710 °C
Boiling point / boiling range  2230 °C
Flash point  Not determined
Evaporation rate  Not determined
Flammability (solid, gas)  Not flammable
Flammability Limit in Air  Not determined
Vapor Pressure  Not determined
Vapor density  Not determined
Density  2.2 g/cm³
Relative density  Not determined
Specific gravity  Not determined
Water solubility  15 - 24 mg/L (20 °C, pH = 5.5 - 6.6)
Partition coefficient (LogPow)  0.53
Autoignition temperature  Not determined
Decomposition temperature  Not determined
Kinematic viscosity  Not determined
Dynamic viscosity  Not determined
Explosive properties  Not an explosive
Oxidizing properties  Not determined

9.2. Other information
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Incompatible materials

10.5. Incompatible materials
Fluorides, hydrochloric acid, strong oxidizers, vinyl acetate, halogen oxides, alkali hydroxides.

10.6. Hazardous decomposition products
None under normal use conditions
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS #: 7631-86-9)</td>
<td>&gt;5000mg/kg bw(Rat)</td>
<td>-</td>
<td>&gt;2.08mg/L air/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Non-irritating to the skin.

Serious eye damage/eye irritation
No eye irritation.

Sensitization
No sensitization responses were observed.

Germ cell mutagenicity
No information available.

Carcinogenicity
No information available

Reproductive toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Aspiration hazard
No information available.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants EC50</th>
<th>Fish LC50</th>
<th>Crustacea EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide (CAS #: 7631-86-9)</td>
<td>440: 72 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available

12.5. Results of PBT and vPvB assessment
Not applicable
12.6. Other adverse effects
No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
- Waste from residues/unused products: Disposal should be in accordance with applicable regional, national and local laws and regulations
- Contaminated packaging: Dispose of in accordance with federal, state and local regulations

SECTION 14: Transport information

14.1 UN Number 
Not regulated

14.2 Proper shipping name
Not regulated

14.3 Hazard Class
Not regulated

14.4 Packing Group
Not regulated

14.5 Environmental hazards
Not applicable

14.6 Special precautions
No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

European Union
- Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
- Take note of Directive 94/33/EC on the protection of young people at work
- Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL/NDS L</th>
<th>EINECS/E LINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon dioxide 7631-86-9 (98)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

"-" Not Listed
"X" Listed

15.2. Chemical safety assessment
A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date 04-Nov-2014
Revision date 04-Nov-2014
Revision Note Not applicable
Key or legend to abbreviations and acronyms used in the safety data sheet
- TWA - TWA (time-weighted average)
- STEL - STEL (Short Term Exposure Limit)
- Ceiling - Maximum limit value
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

Full text of H-Statements referred to under section 3
Not classified

Full text of R-phrases referred to under sections 2 and 3
Not classified

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

-------- End of Safety Data Sheet --------