

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 29 Oct 2025

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Silica Granular 60Å.../40-63Åµm Hydrous MC 4-6%

### 1.1. Catalog No.:

693979

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

Physical hazards - Based on available data, the classification criteria are not met  
Health hazards - Based on available data, the classification criteria are not met  
Environmental hazards - Based on avail

### 2.2. Label elements

#### 2.2.1. Pictogram

#### 2.2.2.

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment  
This product does not contain any known or suspected endocrine disruptors

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1.1. Formula

O<sub>2</sub>Si

### 3.1.2. Molecular Weight (g/mol)

60.08

### 3.1.3. CAS-No.

7631-86-9

## 4. FIRST AID MEASURES

Eye Contact - Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact - Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Ingestion - Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Inhalation - Remove to fresh air. Get medical attention immediately if symptoms occur.

Self-Protection of the First Aider - No special precautions required.

## 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Extinguishing media which must not be used for safety reasons

No information available. 5.2. Special hazards arising from the substance or mixture

Non-combustible. None reasonably foreseeable. Hazardous Combustion Products

None under normal use conditions. 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Class 13

Storage Class (LGK) (Germany).

7.3. Specific end use(s)

Use in laboratories.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. IRE - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component

The United Kingdom

European Union

Ireland

Silica, amorphous

STEL: 18 mg/m<sup>3</sup> 15 min

TWA: 6 mg/m<sup>3</sup> 8 hr. total

STEL: 7.2 mg/m<sup>3</sup> 15 min

inhalable dust

TWA: 6 mg/m<sup>3</sup> 8 hr

TWA: 2.4 mg/m<sup>3</sup> 8 hr.

TWA: 2.4 mg/m<sup>3</sup> 8 hr

respirable dust  
STEL: 18 mg/m<sup>3</sup> 15 min  
STEL: 7.2 mg/m<sup>3</sup> 15 min

#### Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL) - Workers

Predicted No Effect Concentration (PNEC)

No information available.

#### 8.2. Exposure controls

##### Engineering Measures

None under normal use conditions.

##### Personal protective equipment

Eye - Protection Wear safety glasses with side shields (or goggles) (European standard - EN166)

Hand Protection - Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber	> 480 minutes	-	Level 1 EN388	(minimum requirement)
Nitrile rubber				
Neoprene				
PVC				

Skin and body protection      Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection - No protective equipment is needed under normal use conditions.

Large scale/emergency use - Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particle filter

Small scale/Laboratory use - Maintain adequate ventilation

Environmental exposure controls - No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical State Solid

Appearance - White

Odor - Odorless

Odor Threshold - No data available

Melting Point/Range - No data available

Softening Point - No data available

Boiling Point/Range - No information available

Flammability (liquid) - Not applicable Solid

Flammability (solid, gas) - No information available

Explosion Limits - No data available

Flash Point - No information available      Method - No information available

Autoignition Temperature - No data available

Decomposition Temperature - No data available

pH 5.5 - 8      10% aq. solution

Viscosity - Not applicable Solid

Water Solubility - Insoluble

Solubility in other solvents - No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure - No data available

Density / Specific Gravity - No data available

Bulk Density - No data available

Vapor Density - Not applicable

Vapor Density - Not applicable Solid

Particle characteristics - No data available

9.2. Other information  
Molecular Formula O<sub>2</sub> Si  
Molecular Weight 60.08  
Evaporation Rate Not applicable - Solid

## 10. STABILITY AND REACTIVITY

- 10.1. Reactivity - None known, based on information available
- 10.2. Chemical stability - Stable under normal conditions.
- 10.3. Possibility of hazardous reactions  
Hazardous Polymerization - Hazardous polymerization does not occur.  
Hazardous Reactions - None under normal processing.
- 10.4. Conditions to avoid  
Avoid dust formation. Incompatible products.
- 10.5. Incompatible materials - Strong oxidizing agents.
- 10.6. Hazardous decomposition products - None under normal use conditions

## 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity;

Oral - Based on available data, the classification criteria are not met

Dermal - Based on available data, the classification criteria are not met

Inhalation - Based on available data, the classification

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silica, amorphous	>5000 mg/kg ( Rat )	>2000 mg/kg ( Rabbit )	-

(b) skin corrosion/irritation; - Based on available data, the classification criteria are not met

(c) serious eye damage/irritation; - Based on available data, the classification criteria are not met

(d) respiratory or skin sensitization;

Respiratory - Based on available data, the classification criteria are not met

Skin - Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; - Based on available data, the classification criteria are not met

(f) carcinogenicity; - Based on available data, the classification criteria are not met

(g) reproductive toxicity; - Based on available data, the classification criteria are not met

(h) STOT-single exposure; - Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; - Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; - Not applicable Solid

Other Adverse Effects - The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed - No information available

11.2. Information on other hazards

Endocrine Disrupting Properties - Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors

## 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Silica, amorphous	LC50: 5000 mg/L/96 h	EC50: 7600 mg/L/48h	EC50: 440 mg/L/72h

12.2. Persistence and degradability

Persistence - Insoluble in water.

Degradability - Not relevant for inorganic substances.

12.3. Bioaccumulative potential - May have some potential to bioaccumulate

12.4. Mobility in soil - Spillage unlikely to penetrate soil. Is not likely mobile in the environment due to its low water solubility.

12.5. Results of PBT and vPvB assessment - In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information - This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Persistent Organic Pollutant - This product does not contain any known or suspected substance

Ozone Depletion Potential - This product does not contain any known or suspected substance

## 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products - Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and

accurate classification.

Contaminated Packaging - Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

European Waste Catalogue (EWC) - According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information - Waste codes should be assigned by the user based on the application for which the product was used.

#### 14. TRANSPORT INFORMATION

IMDG/IMO - Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR - Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA - Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards - No hazards identified

14.6. Special precautions for user - No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments - Not applicable, packaged goods

#### 15. REGULATORY INFORMATION

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

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006

Not listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

#### 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!