Material Safety Data Sheet

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

Product:	Silica Gel / Silicon Dioxide / Crystal Cat litter
Manufacturer:	Conrad Electronic SE
Address:	Klaus-Conrad-Str. 1, D-92240 Hirschau
Telephone:	+49 (0) 9604 / 40 - 8988
Date of issue:	08.11.2018

1.1 Product identifier

Trade name: Silica Gel / Silicon Dioxide / Crystal Cat litter

CAS Number: 7631-86-9

EC number: 231-545-4

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

Application of the substance / the mixture: Desiccant or cat litter

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance 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 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

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

3.1 Substances

CAS No. Description:

7631-86-9 silicon dioxide

Identification number(s):

EC number: 231-545-4

Composition:

CAS No.	EINECS	Ingredient	Limits	%
7631-86-9	231-545-4	silicon dioxide	substance with a Community workplace exposure limit	98.0
7732-18-5	231-791-2	Water		2.0

Remark:

All ingredients listed above are not classified according to Regulation (EC) No. 1272/2008.

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:

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:

Never give anything by mouth to an unconscious person. Rinse out mouth with water.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.

5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.

Mouth respiratory protective device.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

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.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

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.

Do not store together with alkaline materials.

Do not store together with acids.

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:

7631-86-9 silicon dioxide (98.0%)

AGW (Germany): Long-term value: 4 E mg/m³
DFG, 2, Y

Regulatory information

AGW (Germany): TRGS 900

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.

Personal protective equipment

Respiratory protection:

Suitable respiratory protective device recommended.

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 trough 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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:	
Form:	Solid particles
Colour:	Translucent white
Odour:	Odourless
Odour threshold:	Data not available.
pH-value:	Data not available.
Change in condition:	
Melting point/freezing point:	Data not available.
Initial boiling point and boiling range:	Data not available
Flash point:	Data not available.
Flammability (solid, gas):	Data not available.
Auto-ignition temperature:	Data not available.
Decomposition temperature:	Data not available.
Self-igniting:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Lower: Data not available.
	Upper: Data not available.
Oxidizing properties:	Data not available.
Vapour pressure:	Data not available.
Density:	Data not available.
Relative density:	Data not available.
Vapour density:	Data not available.
Evaporation rate:	Data not available.
Solubility in / Miscibility with water:	Data not available.
Partition coefficient:	n-octanol/water: Data not available.
Viscosity:	Dynamic: Data not available.
	Kinematic: Data not available.

9.2 Other information

No further relevant information 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 toxicological effects

Acute toxicity:

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

7631-86-9 silicon dioxide

Oral LD50 10,000 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.

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:

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

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.
	Label: 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

14.8 Transport/Additional information

Not dangerous according to the above specifications.

UN "Model Regulation":

Not applicable.

15. Regulatory information

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

MAK (German Maximum Workplace Concentration)

Substance is not listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I: Substance is not 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 (27/6/2018): Substance is not listed.

REACH Regulation Annex XVII Restriction (18/4/2018): See Section 16 for information about restriction of use. Substance is not listed.

REACH Regulation Annex XIV Authorisation List (13/6/2017): Substance is not listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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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