

Safety Data Sheet Desi Dry

Silica - Gel

Revision 06 from 31/10/2013, Printing date: 31/10/2013
According to 1907/2006/EG, Article 31, Trade name: Desi Dry

Slauerhoffstraat 25 - 7552 ZW Hengelo

1 Identification of the substance / mixture and of the company

Product identifier

Trade name
Desi Dry

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

Application of the substance / the mixture
Desiccant

Details of the supplier of the safety data sheet

Silica - Gel

Slauerhoffstraat 25 - 7552 ZW Hengelo

2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
The substance is not classified according to the CLP regulation.

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

Information pertaining to particular dangers for man and environment

This product is not subject to compulsory identification due to the calculation guide lines of the „General rating principles for preparations of the EC“ in its latest version.

Classification system

The classification was made according to the latest edition of substances lists of the EC, expanded upon from company and literature data.

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

Other hazards

Results of PBT and vPvB assessment
PBT Not applicable.
vPvB Not applicable.

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3 Composition/information on ingredients

Chemical characterization

Substance

Description

Silicon dioxide

Dangerous Components

CAS: 7631-86-9 112926-00-8	EG-No: 231-545-4	Silicon dioxide	
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Additional references

For the wording of the listed hazard warnings refer to section 16.

4 First aid measures

Description of first aid measures

General information

No special measures necessary.

After inhalation

Supply fresh air, seek medical treatment in case of complaints.

After skin contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

After eye contact

Rinse opened eye for several minutes under running water. Get medical attention if any discomfort continues.

After swallowing

Immediately rinse mouth and drink plenty of water. Get medical attention if any discomfort continues.

Information for doctor

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire fighting measures

Extinguishing media

Suitable extinguishing media

Choose fire extinguishing method appropriate to surrounding areas.

Unsuitable extinguishing media

None known

Special hazards arising from the substance or mixture

On burning the product might release

Carbon monoxide, carbon dioxide

Advice for fire fighters

Protective equipment

Respiratory protection might be necessary.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid any dust formation.
Wear protective clothing.
Keep away unprotected individuals.

Environmental precautions

Usual care recommended

Methods and material for containment and cleaning up

Pick up mechanically.

Reference to other sections

See section 7 for safe handling information.
See section 8 for information about personal protective equipment.
See section 13 for disposal information.

7 Handling and storage

Handling

Precaution for safe handling

Store in cool and dry conditions, in properly closed containers.
Avoid any dust formation.
Avoid eye and skin contact.

Information about fire- and explosion protection

Take measures against static discharges.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

Store in dry conditions.
Protect from humidity and water.
Product is hygroscopic.

Storage group

Storage group 13 – non-flammable material

Classification according to regulation for industrial safety (BetrSichV)

Not required

Specific end-use application

Desiccant

8 Exposure controls / personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace

7631-86-9 Silicon dioxide	
AGW	4 E mg/m ³

Additional information

The lists valid during the making were used as basis.

Exposure Controls

Additional information about design of technical facilities

No further data.

(Continued on page 4)

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Slauerhoffstraat 25 - 7552 ZW Hengelo

Personal protective equipment

(Continued from page 3)

General protective and hygienic measures

The usual precautionary measures for handling chemicals are to be adhered to.

Respiratory protection

In case of dust use respirator with breathing filter P2.

Protection of hands

The glove material has to be impermeable and resistant to the product / the substance / the mixture.

Selection of glove material on consideration of the break through times, permeation rates and the degradation.

The 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 cannot 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.

For permanent contact gloves made of the following materials are suitable

Nitrile rubber

Eye protection

Industry environment goggles have to be used when dust occurs.

9 Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance	
Form	Granulate or beads
Colour	white
Odour	Odourless
Odour threshold	Undefined
Ph-value at 20°C	4

Change in condition

Melting point/Melting range	> 1000 °C
Boiling point / Boiling range	Not determined
Flash point	Inapplicable
Flammability (solid, gaseous)	Inapplicable
Igniting temperature	
Decomposition temperature	Undefined
Self-igniting	Product is not self-igniting
Danger of explosion	Product does not present an explosion hazard
Vapour pressure	Inapplicable
Density	Undefined
Relative density	Undefined

(Continued on page 5)

Safety Data Sheet Desi Dry

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According to 1907/2006/EG, Article 31, Trade name: Desi Dry

Slauerhoffstraat 25 - 7552 ZW Hengelo

(Continued from page 4)

Vapour density	Inapplicable
Rate of vaporization	Inapplicable
Solubility in / Miscibility with water	Insoluble
Segregation coefficient (n-octanol/water)	Undefined
Viscosity Dynamic Kinematic	Inapplicable Inapplicable
Solvent content Organic solvents Water Solid content	0,0% 0,0% 100 %

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Hazardous decomposition products

The thermal decomposition is highly dependent on external conditions. It forms a complex mixture of liquids and gases in the air, including carbon monoxide, carbon dioxide and other organic components, if the material is burned degraded thermally or by oxidation.

11 Toxicological information

Information on toxicological effects

Acute toxicity

Relevant for classification LD/LC50 values

Oral	LD50	>10000mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalation	LC0/4 h	> 2 mg/l (rat)

Primary irritant effect

on the skin: No irritating effect

on the eyes: No irritating effect

Sensitization

No sensitizing effects known.

Additional toxicological information

This product is not subject to compulsory identification due to the calculation guide lines of the „General rating principles for preparations of the EC“ in its latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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Silica - Gel

Revision 06 from 31/10/2013, Printing date: 31/10/2013
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Slauerhoffstraat 25 - 7552 ZW Hengelo

12 Ecological information

Toxicity

Aquatic toxicity

Fish toxicity	LC50/96 h	>10000 mg/l (Brachydaniorerio)
Daphnia toxicity	EC50/24 h	>10000 mg/l

Persistence and degradability

The product mostly can be eliminated from water by abiotic processes, like adsorption on activated sludge.

Behaviour in environment systems

Bio accumulative potential

Not accumulating in organisms.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Additional ecological information

General notes

Not hazardous for water (according to annex 1 VwVwS).

Other adverse effects

No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation

Disposal as non hazardous waste according to official regulations.

European Waste Classification for Statistics

Waste entry 06 08 99:

- Wastes from inorganic chemical processes
- Wastes from the manufacturing, formulation, supply and use of silicon and silicon derivatives
- Wastes not otherwise specified

The waste code numbers mentioned are recommendations based on the probable use of the product.

14 Transport information

Land transport ADR/RID and GGVSEB (cross-border/inland)

ADR/RID-GGVSEB class

No hazardous good.

Maritime transport IMDG/GGVSea

IMDG/GGVSea class

No hazardous good.

Marine pollutant

No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class

Not Restricted.

Additional information

Environmental risk

Not applicable.

(Continued on page 7)

Safety Data Sheet Desi Dry

Silica - Gel

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Slauerhoffstraat 25 - 7552 ZW Hengelo

Special precautions for the user

Not applicable.

(Continued from page 6)

Transport/Additional information

Not dangerous according to the above specifications.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15 Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

Hazard pictograms

Not applicable.

Signal word

Not applicable.

Hazard-determining components of labelling

Not applicable.

Hazard statements

Not applicable.

Precautionary statements

Not applicable.

National rules

Classification according to regulation for industrial safety (BetrSichV)

Not required.

Water hazard class

Not hazardous for water (according to annex 1 VwVwS).

Chemical safety assessment

A chemical safety assessment is not performed.

16 Other information

This information is based on our knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
EINECS Eg-No	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
IATA-DGR	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization

(Continued on page 8)

Safety Data Sheet Desi Dry

Silica - Gel

Revision 06 from 31/10/2013, Printing date: 31/10/2013
According to 1907/2006/EG, Article 31, Trade name: Desi Dry

Slauerhoffstraat 25 - 7552 ZW Hengelo

(Continued from page 7)

ICAO-TI	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG	International Maritime Code for Dangerous Goods
GGVSEB	Ordinance on the Transport of Dangerous Goods by Road, Rail and Inland Waterways
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
PBT vPvB	persistent, bioaccumulative and toxic substances, very persistent, very bioaccumulative substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail

General information

Changes compared to the last version are marked as follows at the left side: (*). This version replaces all previous versions.