Version: 10/ 2026

MSDS

Material Safety Data Sheet according to Regulation (EC) No. 1907/2006

GIEBEL Xdry®

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identification

GIEBEL Xdry®

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

Relevant identified uses:
Solid material for drying of gases

1.3 Details of the supplier of the safety data sheet

GIEBEL Germany GmbH
Carl-Zeiss-Str. 5
74626 Bretzfeld (Germany)
germany@giebel-group.com
+49(0)7946 944401-0

1.4 Emergency telephone number

+49(0)7946 9444010 (during normal business hours)
+49(0)176 42554437 (outside normal business hours)

Section 2: Hazards Identification

2.1 Hazards Identification

According to Regulation (EC) No 1272/2008 [CLP]
The product does not require a hazard warning label in accordance with GHS criteria.

2.2 Label elements

According to Directives (EG) No 1272/2008
Globally Harmonized System, EU (GHS)
The product does not require a hazard warning label in accordance with GHS criteria.
According to Regulation 67/548/EWG and 1999/45/EG
The product does not require a hazard warning label in accordance with EG criteria.

2.3 Other hazards

According to Regulation (EG) No. 1272/2008
This Solid/ this mixture contains no components with a concentration of 0.1 % or higher which are classified as persistent, bio accumulative and toxic (PBT) or very persistent and very bio accumulative (vPvB)

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Section 3: Composition / Information on Ingredients

3.1 **Substances**

Chemical nature
Synonyms: Adsorbents, Silica gel, X, Drying beads, Desiccant
~65% SiO2 + ~35% Na86 ((AlO2)86(SiO2)106)
CAS No.: 7631-86-9 & 1318-02-1
EC No.: 231-545-4 & 215-283-8
REACH Registration No.: 01-2119379499-16-xxxx
Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008
No particular hazards known. In accordance with the leading statutory provisions there are no components which must get advised.

Section 4: Composition / Information on Ingredients

4.1 **Description of first aid measures**

Remove contaminated clothing.
If inhaled:
Keep patient calm, remove to fresh air.
On skin contact:
Wash thoroughly with soap and water
On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.
On ingestion:
Rinse mouth and then drink plenty of water.

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

Symptoms: No significant reaction of the human body to the product known.

4.3 **Indication of any immediate medical attention and special treatment needed**

Treatment: Symptomatic treatment (decontamination, vital functi ons).

Section 5: Fire-Fighting Measures

5.1 **Extinguishing agent**

Extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 **Special hazards arising from the substance or mixture**

No particular hazards known.

5.3 **Advice for fire-fighters**

Special protective equipment:
Wear a self-contained breathing apparatus.
Further information:
Product itself is non-combustible; fire extinguishing method of

surrounding areas must be considered. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6: Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures**
Do not breathe dust. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

6.2 **Environmental precautions**
Discharge into the environment must be avoided.

6.3 **Methods and material for containment and cleaning up**
Avoid raising dust. Dampen, pick up mechanically and dispose of. Correctly dispose of recovered product immediately. Reclaim for processing if possible.

6.4 **Reference to other sections**
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

Section 7: Handling and Storage

7.1 **Precautions for safe handling**
Avoid dust formation. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Provide suitable exhaust ventilation at the processing machines.
Protection against fire and explosion:
The substance/product is non-combustible.

7.2 **Conditions for safe storage, including any incompatibilities**
Store it a cool, dry and good ventilated place in a container which is tightly closed.
Storage class (TRGS 510): Non-flammable solids
Suitable materials for containers: carbon steel (iron), Low density polyethylene (LDPE). Further information on storage conditions:
Containers should be stored tightly sealed in a dry place.

7.3 **Specific end use(s)**
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8: Exposure Controls/Personal Protection

8.1 **Control parameters**
Components with workplace-related Monitoring limits.
Ingredient:
Silica gel & X granules
Specification:
TRGS 900 – Monitoring limits

Value:
4 mg/m³
Remark:
Senate Commission for exam of harmful substances from the DFG (MAK-Commission) Colloidal Amorphous Silica (7631-86-9) inclu ding fumed silica and in the wet process produced Silicic acid (Precipitated silicic acid, Silica gel). A risk of fatal damage does not need to be feared if the occupational exposure limit value and the biological limit value (BGW) are adhered to.

8.2 **Exposure controls Personal protective equipment**

Respiratory protection
Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1or FFP1)
Hand protection:
Chemical resistant protective gloves (EN 374)
Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)
Body protection:
Body protection must be chosen based on level of activity and expo sure.
General safety and hygiene measures:
Store work clothing separately. Hands and/or face should be was hed before breaks and at the end of the shift.

Section 9: Physical and Chemical Properties

9.1 **Information on basic physical and chemical properties**

Form: beads
Color: orange & beige
Odor: odorless
Odor threshold: not determined
pH value: 4 – 11 (100 g/kg) (as suspension)
Melting point: > 550 °C
Boiling point: not relevant
Flash point: Non-flammable.
Evaporation rate: not applicable
Flammability: does not ignite
Lower explosion limit: not applicable
Upper explosion limit: not applicable
Ignition temperature: not applicable
Vapour pressure: (20 °C) negligible
Relative vapour density (air): not applicable
Solubility in water: practically insoluble (20 °C)
Partitioning coefficient n-octanol/water (log Kow): not applicable
Self-ignition: not self-igniting
Thermal decomposition: not determined
Viscosity, dynamic: not applicable
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

9.2 **Other information**

Bulk density: 650 - 900 kg/m3

Section 10: Exposure Controls/Personal Protection

10.1 **Reactivity**
No hazardous reactions if stored and handled as prescribed/indica ted.
Metal corrosion: Does not corrode metal.
Formation of flammable gases:
Forms no flammable gases in the presence of water.

10.2 **Chemical stability**
The product is chemically stable.

10.3 **Possibility of hazardous reactions**
Addition of water leads to increase in temperature.
The product is chemically stable.

10.4 **Conditions to avoid**
Avoid dust formation. Avoid deposition of dust.

10.5 **Incompatible materials**
Substances to Avoid: Water

10.6 **Hazardous decomposition products**
Substances to avoid:
No hazardous decomposition products known.

Section 11: Toxicological Information

11.1 **Information on toxicological effects**
Acute toxicity
Of low toxicity after single ingestion.
Experimental/calculated data:
LD50 rat (oral): > 2000 mg/kg
The product has not been tested. The statement has been derived from products of a similar structure or composition
LC50 rat (by inhalation): > 2,07 mg/l 4 h
The product has not been tested. The statement has been derived from products of a similar structure or composition. An aerosol was tested.
LD50 rabbit (dermal): > 5000 mg/kg
The product has not been tested. The statement has been derived from products of a similar structure or composition

Irritation
Not irritating to the eyes. Not irritating to the skin.

Respiratory/Skin sensitization
Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Germ cell mutagenicity
No data available.

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Carcinogenicity
No data available.

Reproductive toxicity
No data available

Developmental toxicity
No data available

Specific target organ toxicity (single exposure)
No data available

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)
No data available

Aspiration hazard
No data available

Other relevant toxicity information
The product was evaluated on the basis of the data available on the components. There are partial data gaps for individual components. However, our current knowledge and experience do not lead to risks beyond the labeling.

Section 12: Ecological Information

12.1 **Toxicity**
No data available

12.2 **Persistence and degradability**
No data available

12.3 **Bio accumulative potential**
No data available

12.4 **Mobility in soil**
No data available

12.5 **Results of PBT and vPvB assessment**
A PBT / vPvB assessment is not available because a chemical safety assessment is not required / not carried out.

12.6 **Other adverse effects**
Avoid entering the environment.

Section 13: Disposal Considerations

13.1 **Waste treatment methods**
Product
Observe national and local legal regulations. If recycling is to be carried out, specialized companies should be approached.
Contaminated packaging
Dispose of in a cordance with national, state and local regulations.

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Used packaging is to be emptied optimally and how to dispose of the substance / the product.

Section 14: Transport Information

14.1 **UN-Number**
ADR/RID: -
IMDG: -
IATA: -

14.2 **UN proper shipping name**
ADR: No dangerous good in the sense of transport regulations
RID: No dangerous good in the sense of transport regulations
IMDG: No dangerous good
IATA: No dangerous good

14.3 **Transport hazard classifications**
ADR/RID: -
IMDG: -
IATA: -

14.4 **Packing group**
ADR/RID: -
IMDG: -
IATA: -

14.5 **Danger to the environment**
ADR/RID: no
IMDG Marine pollutant: no
IATA: no

14.6 **Special precautions for user**
No data available

Section 15: Regulatory Information

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
Water hazard class (AwSV): 1 - Slightly water endangering.
Hazardous Substances Directive 2012/18/EU Directive 2012/18/EU does not apply
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer
Not regulated
Regulation (EC) No 850/2004 on persistent organic pollutants and amending Directive 79/117 / EEC
Not regulated
Regulation (EC) No 689/2008 on the export and import of dangerous chemicals
Not regulated
Substances of very high concern (SVHC)
This product does not contain any substances of very high concern above the relevant legal limit value (> 0.1% (w / w) REACH Regulation (EC) No 1907/2006, Article 57).

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If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this sub section

15.2 **Chemical safety assessment**
No substance safety assessment has been carried out for this product.

Section 16: Other Information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.
Abbreviations and acronyms
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the „International Air Transport Association"
(IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the „International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50 Lethal concentration, 50 percent
LD50 Lethal dose, 50 percent

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