

Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

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

- · Product identifier
- · Trade name: SYLOBEAD® MS 514
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Sector of Use

SU1 Agriculture, forestry, fishery

- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU5 Manufacture of textiles, leather, fur
- SU6b Manufacture of pulp, paper and paper products
- SU7 Printing and reproduction of recorded media
- SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
- SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- SU11 Manufacture of rubber products
- SU12 Manufacture of plastics products, including compounding and conversion
  SU15 Manufacture of fabricated metal products, except machinery and equipment
- SU16 Manufacture of computer, electronic and optical products, electrical equipment
- SU19 Building and construction work
- · Product category
- PC1 Adhesives, sealants
- PC2 Adsorbents
- PC8 Biocidal products
- PC9a Coatings and paints, thinners, paint removers
- PC9b Fillers, putties, plasters, modelling clay
- PC12 Fertilisers
  PC14 Metal surface treatment products
- PC15 Non-metal-surface treatment products
- PC18 Ink and toners
- PC19 Intermediate
- PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
- PC23 Leather treatment products
- PC26 Paper and board treatment products
- PC27 Plant protection products
- PC28 Perfumes, fragrances
- PC31 Polishes and wax blends
- PC32 Polymer preparations and compounds
- PC33 Semiconductors
- PC34 Textile dyes, and impregnating products
- PC35 Washing and cleaning products (including solvent based products)
- PC37 Water treatment chemicals
- PC40 Extraction agents
- PC0 Other
- · Process category
- PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
- PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
- PROC5 Mixing or blending in batch processes
- PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
- PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including
- PROC14 Tabletting, compression, extrusion, pelletisation, granulation
- · Environmental release category ERC2 Formulation into mixture
- · Article category Not applicable.

(Contd. on page 2)

(Contd. of page 1)



# Safety data sheet according to GB CLP Regulation

Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

#### Trade name: SYLOBEAD® MS 514

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

GRACE GmbH In der Hollerhecke 1 D-67547 Worms GERMANY

Tel.: +49 (0)6241 - 403 1549 FAX: +49 (0)6241 - 403 1211

· Only Representative:

ALLTECH ASSOCIATES APPLIED SCIENCE LIMITED

Oakpark Business Centre, Alington Road

St. Neots, Cambridgeshire

**PE196WA** 

UNITED KINGDOM

· Importer

GRACE GmbH In der Hollerhecke 1 D-67547 Worms GERMANY

· Further information obtainable from:

Product Stewardship, Grace Europe Holding GmbH.

MSDS.Davison@grace.com

· Emergency telephone number: Tel.: +49 (0)172 7129276

## **SECTION 2: Hazards identification**

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- Label elements
- · GHS label elements Not applicable.
- Hazard pictograms Not applicable.
- · Signal word Not applicable.
- · Hazard statements Not applicable.
- · Other hazards

The product is very adsorbent and may have a drying effect on skin and eyes.

When exceeding the WEL (Workplace Exposure Limit) a mechanical overburdening of the respiratory system is possible.

In contact with water heat development and therefore burning of the skin and mucous membrane is possible.

This product contains  $\leq 1$  % quartz which is part of a natural raw material.

At present, EU Regulations do not require safety labeling of products containing quartz.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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

- · Mixtures
- · Description: Crystalline aluminosilicate with binders.

	Components (Ca	\S No. and	EINECS	No.):
--	----------------	------------	--------	-------

CAS: 1318-02-1 zeol

EINECS: 215-283-8

Reg.nr.: UK-06-1379203786-6-0001

zeolite (crystalline aluminosilicate)

75-90%

(Contd. on page 3)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

		_(Contd. of page :
CAS: 1318-02-1 EINECS: 215-283-8	zeolites	10-25%
CAS: 14808-60-7	quartz (SiO2)	≤1%
EINECS: 238-878-4		

· Dangerous components: Not applicable.

· Impurities and stabilising additives:

Silica, crystalline (airborne particles of respirable size)

Alternative CAS number: 14808-60-7

### **SECTION 4: First aid measures**

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

Generally the product does not irritate the skin.

- · After eve contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult 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.

# **SECTION 5: Firefighting measures**

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear personal protective equipment.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures
   Wear protective clothing.
- Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Sweep the spill area; avoid raising dust.

· Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

GB



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Trade name: SYLOBEAD® MS 514

(Contd. of page 3)

Revision: 19.05.2022

## **SECTION 7: Handling and storage**

· Precautions for safe handling

Keep receptacles tightly sealed.

Provide suction extractors if dust is formed.

Any unavoidable deposit of dust must be regularly removed.

Prevent static electric sparks.

· Information about fire - and explosion protection:

Earth container to avoid electric sparks, especially in contact with flammable substances. The product is not flammable.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store in dry conditions.

This-product-is-hygroscopic.

Keep container tightly sealed.

Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- Control parameters
- Ingredients with limit values that require monitoring at the workplace:

14808-60-7 quartz (SiO2)

BOELV (European Union) Long-term value: 0.1\* mg/m3

\*respirable fraction

- Ingredients with biological limit values:
- Additional Occupational Exposure Limit Values for possible hazards during processing:

Dust inhalable

TWA (Great Britain) Long-term value: 10 mg/m3

Dust respirable

WEL (Great Britain) Long-term value: 4 mg/m<sup>3</sup>

- · Additional information: Valid lists at time of creation were used as basis.
- · Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

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

· Respiratory protection:

If the WEL value is exceeded.

Filter P2

· Hand protection



Protective gloves.

Wear gloves for protection against mechanical hazards according to EN 388. Use gloves of stable material (e.g. Nitrile) - if necessary tri-coted to improve the wearability. Check the condition of the gloves prior to each use.

Check the permeability prior to each anew use of the glove.

(Contd. on page 5)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

(Contd. of page 4)

After use of gloves apply skin-cleaning agents and skin cosmetics.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Preventive skin protection by use of skin-protecting agents is recommended.

#### · 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.

Recommended thickness of the material: ≥ 0.11 mm

Butyl rubber, BR Nitrile rubber, NBR

### · Penetration time of glove material

The exact break through time has to be obtained from the manufacturer of the protective gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015; Level 6).

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR Nitrile rubber, NBR

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

- Not suitable are gloves made of the following materials: cloth aloves Leather gloves
- · Eye/face protection



Safety glasses.

· Body protection: Protective work clothing.

# **SECTION 9: Physical and chemical properties**

- · Information on basic physical and chemical properties
- · General Information
- · Physical state

Solid

· Appearance:

Solid

· Form:

Beads

· Colour:

Beige

· Odour:

Odourless

· Odour threshold:

Not determined.

· Melting point/freezing point:

>400 °C (OECD TG 102)

(zeolite)

· Boiling point or initial boiling point and

boiling range

Not determined

· Flammability

Product is not flammable.

· Lower and upper explosion limit

Not determined.

· Lower: · Upper:

Not determined.

(Contd. on page 6)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

The state of the s	· · · · · · · · · · · · · · · · · · ·
	(Contd. of page 5)
· Flash point:	Not determined.
· Auto-ignition temperature:	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not applicable.
· pH at 20 °C	7-11
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic viscosity:	Not applicable.
Solubility	.,
· water:	Insoluble.
· Partition coefficient n-octanol/water (log	
value)	Not determined.
· Vapour pressure:	Not applicable.
<ul> <li>Density and/or relative density</li> </ul>	
· Density:	Not determined.
· Relative density	Not determined.
· Bulk density:	
· Vapour density	Not applicable.
Particle characteristics	Not determined.
· Other information	No further relevant information available.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical hazar	d
classes	
· Explosives	Not applicable.
· Flammable gases	Not applicable.
· Aerosols	Not applicable.
· Oxidising gases	Not applicable.
Gases under pressure	Not applicable.
· Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophoric solids	Not applicable.
Self-heating substances and mixtures	Not applicable.
Substances and mixtures, which emit	NI-4BInla
flammable gases in contact with water	Not applicable.
Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides     Corrosive to metals	Not applicable.
Describing a symbolicae	Not applicable.

# **SECTION 10: Stability and reactivity**

· Desensitised explosives

- Reactivity No further relevant information available.
  Chemical stability No decomposition if used and stored according to specifications.
  Possibility of hazardous reactions No dangerous reactions known.

Not applicable.

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 7)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

(Contd. of page 6)

· Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

1318-02-1 zeolite (crystalline aluminosilicate)				
Oral	LD50	>5,110 mg/kg (rat) (OECD 401)		
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)		
Inhalative	LC0	>3,350 mg/m³/4h (rat) IUCLID Dataset 18-Feb-2000		
	LC50 (6 h)	1.25-1.5 mg/m³ (General population)		

#### · Skin corrosion/irritation

### 1318-02-1 zeolite (crystalline aluminosilicate)

Skin IS 0 (rabbit) (OECD 404)

## · Serious eye damage/irritation

# 1318-02-1 zeolite (crystalline aluminosilicate)

Eye IS 0.7-1.3 (rabbit) (OECD 405) Corneal opacity

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Respiratory sensitisation No further relevant information available.
- · Skin sensitisation No further relevant information available.
- · Additional toxicological information:

Repeate	ed dose tox	city	
1318-02	2-1 zeolite (d	rystalline aluminosilicate)	
Oral NO	DAEL (90 d)	250-300 mg/kg bw/day (rat)	
i		subchronic oral repeated dose	

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· Caro	inogenicity	
1318	-02-1 zeolite (cryst	alline aluminosilicate)
Oral	NOAEL ≥1,000 pp	m (rat)
· Muta	genicity	
1318	-02-1 zeolite (cryst	alline aluminosilicate)
Oral	Micronucleus-Test	5,000 mg/kg bw (mouse) (OECD 474) Genotoxicity: negative (male/female)
	AMES Test	>0.1 mg/plate (Salmonella typhimurium) (OECD 471) negative with and without metabolic activation
	HPRT Test	>0.08 mg/ml (L5178Y) (OECD 476) no genotoxicity; cytotoxicity: >0,02 mg/ml without metabolic acivation; >0,08 mg/ml with metabolic activation

· Reproductive toxicity				
1318-02-1 zeolite (crystalline aluminosilicate)				
Oral NOAEL (maternal toxicity)	≥1,600 mg/kg bw/day (rat) (OECD 414)			
	≥1,600 mg/kg bw/day (rabbit) (OECD 414)			
NOAEL (teratogenicity)	≥1,600 mg/kg bw/day (rat) (OECD 414)			

(Contd. on page 8)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

≥1,600 mg/kg bw/day (rabbit) (OECD 414)

(Contd. of page 7)

- · Specific target organ toxicity (single exposure) No further relevant information available.
- · Specific target organ toxicity (repeated exposure) No further relevant information available.
- Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · Toxicity
- · Aquatic toxicity:
- · Fish toxicity

## 1318-02-1 zeolite (crystalline aluminosilicate)

LC50 (96 h) >680 mg/l (Pimephales promelas) (EPA 660/3-75/009)

- · Water flea toxicity
- 1318-02-1 zeolite (crystalline aluminosilicate)

EC50 (24 h) 2,808 mg/l (Daphnia magna) (OECD 202)

- · Algae toxicity
- 1318-02-1 zeolite (crystalline aluminosilicate)

EC50 (96h) | >328 mg/l (Scenedesmus subspicatus) (OECD 201)

- · Bacterial toxicity
- 1318-02-1 zeolite (crystalline aluminosilicate)

EC50 (16h) 950 mg/l (Pseudomonas putida) (DIN 38412/8)

- · Persistence and degradability No further relevant information available.
- · Other information:

By the insolubility in water there is a separation at every filtration and sedimentation process.

- · Behaviour in environmental systems: Accumulation in organisms is not to be expected.
- · Bioaccumulative potential Does not accumulate in organisms
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not determined.
- · vPvB: Not determined.
- · Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.

## **SECTION 13: Disposal considerations**

- · Waste treatment methods
- · Recommendation: Disposal must be made according to official regulations.
- · Waste disposal key:

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

(Contd. on page 9)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

· Uncleaned packaging:

(Contd. of page 8)

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informat	tion
· UN number or ID number	
· ADR, ADN, IMDG, IATA	Not applicable.
· UN proper shipping name · ADR, ADN, IMDG, IATA	Not applicable.
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Not applicable.
· Packing group	
· ADR, IMDG, IATA	Not applicable.
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Segregation groups	-
<ul> <li>Maritime transport in bulk according to instruments</li> </ul>	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only.

## **SECTION 15: Regulatory information**

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · GHS label elements Not applicable.
- · Hazard pictograms Not applicable.
- · Signal word Not applicable.
- · Hazard statements Not applicable.
- · Directive 2012/18/EU (Seveso III)
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· REGULATION (EC) 1907/2006 ANNEX XIV (List of Substances Subject to Authorisation)

None of the ingredients is listed.

- · Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC) None of the ingredients is listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment — Annex II (RoHS)

None of the ingredients is listed.

(Contd. on page 10)



Printing date 19.05,2022

Version: 6.9 (replaces version 6.8)

Trade name: SYLOBEAD® MS 514

(Contd. of page 9)

Revision: 19.05.2022

· REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- · Classification system:
- · Waterhazard class: WGK nwg (AwSV of 18.04.2017); not hazardous to waters.
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· Candidate List of Substances of Very High Concern for Authorisation

None of the ingredients is listed.

Registered in the international inventory lists:

TSCA (USA) and DSL (Canada)

Zeolites are considered for TSCA and DSL purposes to be mixtures of the substances used to manufacture them. The individual reactant materials used to produce zeolites are required to be listed separately on the Inventory. The application of EPA's guidance is not affected by the chemical composition of the zeolite under consideration.

EPA recognizes zeolites as a family of aluminosilicates manufactured from a number of commercial processes and techniques that utilize different proportions of alumina, silica and a variety of sources of different inorganic and organic cations. The final zeolites are characterized by covalently linked AIO4 and SiO4 tetrahedra. Zeolites as a class of substances are considered mixtures under TSCA regardless of the commercial manufacturing processes and reactants utilized to achieve the desired chemical composition of the final zeolite structure.

EINECS/REACH (Europe)

IECSC (China)

PICCS (Philippines)

AIIC (Australia)

KECI (Korea)

NZIoC (New Zealand) ENCS (Japan)

INSQ (Mexico)

TCSI (Taiwan)

DIW (Thailand)

Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

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

- · Department issuing SDS: Product Stewardship, Grace Europe Holding GmbH.
- · HS-Code 3824 9915
- · Contact:

SALES OFFICES

USA: **GRACE** W. R. Grace & Co.-Conn 7500 Grace DR Columbia, MD 21044 Tel: +1 410-531 4000

Europe:

(Contd. on page 11)



Printing date 19.05.2022

Version: 6.9 (replaces version 6.8)

Revision: 19.05.2022

Trade name: SYLOBEAD® MS 514

(Contd. of page 10)

Grace GmbH In der Hollerhecke 1 D-67545 Worms, Germany Tel: +49 6241 40300

Asia Pacific: Grace Products (Singapore) Pte Ltd 230 Orchard Road 09-232, Faber House Singapore 238854 Tel: +65 6737 3033 Fax: +65 6737 5826

Grace Trading (Shanghai) Ltd 19th Floor K.Wah Center 1010 Huai Hai Zhong Road Shanghai, 200031 China T(电话): +86 21 3325 8288 F (传真): +86 21 3325 8245

W. R. Grace Japan K.K Kohken New River Bldg 3F 2-21-18, Shinkawa Chuo-ku, Tokyo 104-0033 JAPAN

Tel: +81 3.3537.6006 Fax: +81 3.3537.6007

· Other information:

· The first date of preparation 26.02.2015

· Number of revision times and the latest revision date 6.9 / 19.05.2022

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

ADR: Accord relatif au transport international des marchandises dangereuses the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

· Others No further relevant information available.

· \* Data compared to the previous version altered.