

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 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 (e.g. Disinfectants, pest control)

PC9a Coatings and paints, thinners, paint removers

PC9b Fillers, putties, plasters, modelling clay

PC12 Fertilisers

PC14 Metal surface treatment products, including galvanic and electroplating products

PC15 Non-metal-surface treatment products

PC18 Ink and toners

PC19 Intermediate

PC20 Products such as ph-regulators, flocculants, precipitants, neutralisation agents

PC23 Leather tanning, dye, finishing, impregnation and care products

PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids

PC27 Plant protection products

PC28 Perfumes, fragrances

PC31 Polishes and wax blends

PC32 Polymer preparations and compounds

PC33 Semiconductors

PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids

PC35 Washing and cleaning products (including solvent based products)

PC37 Water treatment chemicals

PC40 Extraction agents

PC0 Other

Process category

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation

Environmental release category ERC2 Formulation of preparations**Article category** Not applicable.

(Contd. on page 2)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 1)

• Details of the supplier of the safety data sheet**• Manufacturer/Supplier:**

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• Further information obtainable from:

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MSDS.Davison@grace.com

• 1.4 Emergency telephone number: Tel.: +49 (0)172 7129276**SECTION 2: Hazards identification****• Classification of the substance or mixture****• Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to CLP.

• Classification according to Directive 67/548/EEC or Directive 1999/45/EC None**• Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

• Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

• Label elements**• Labelling according to Regulation (EC) No 1272/2008 None****• Hazard pictograms None****• Signal word None****• Hazard statements None****• Information concerning particular hazards for human and environment:****• Safety phrases:** 29 Do not empty into drains.**• 2.3 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 ~ 1 % quartz which is part of a natural raw material.

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

However, quartz has been recently classified by IARC (International Agency for Research on Cancer) as carcinogenic to humans by inhalation (Group I). Furthermore, quartz can cause silicosis and other lung diseases on prolonged exposure.

• Results of PBT and vPvB assessment**• PBT:** Not applicable.**• vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****• Chemical characterisation: Mixtures****• Description:** Crystalline aluminosilicate with binders.

(Contd. on page 3)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 2)

· Components (CAS No. and EINECS No.):		
CAS: 1318-02-1 EINECS: 215-283-8 Reg.nr.: 01-2119429034-49-XXXX	zeolite (crystalline aluminosilicate)	75-90%
CAS: 1318-02-1 EINECS: 215-283-8 Reg.nr.: 01-2119561162-47-XXXX	zeolite (crystalline aluminosilicate)	10-25%
CAS: 14808-60-7 EINECS: 238-878-4 Reg.nr.: 02-2119513676-36-0000	quartz (SiO ₂)	≤ 1%

· Dangerous components: None**· Impurities and stabilising additives:**

CAS: 14808-60-7 EINECS: 238-878-4 Reg.nr.: 02-2119513676-36-0000	quartz (SiO ₂)
	Silica, crystalline (airborne particles of respirable size)

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

SECTION 5: Firefighting measures

- 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.
- 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

- 6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- 6.2 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.
- 6.3 Methods and material for containment and cleaning up:**
Sweep the spill area; avoid raising dust.

(Contd. on page 4)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 3)

6.4 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.

SECTION 7: Handling and storage**7.1 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.

7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs**1318-02-1 zeolite (crystalline aluminosilicate)**

Oral	DNEL(long-systemic)	1.25-1.5 mg/kg bw /day (General population)
Dermal	DNEL(long-systemic)	1.25-1.5 mg/kg bw /day (General population)
Inhalative	DNEL(long-local)	2.5-3.0 mg/kg bw /day (Worker) 3 A mg/m ³ (Worker)

PNECs**1318-02-1 zeolite (crystalline aluminosilicate)**

PNEC	3.2 mg/l (aqua-freshwater)
	daphnia magna

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/m³

Additional information: Based on lists valid at date of MSDS creation.

(Contd. on page 5)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 4)

• Exposure controls**• 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

• Protection of hands:

Protective gloves.

Wear gloves for protection against mechanical hazards according to EN 388.

Use gloves of stable material (e.g. Nitrile) - if necessary tricotized 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.

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

EN 388: Minimum requirements for efficiency level 1 for all groups.

• Penetration time of glove material

EN 420: Minimum requirements for efficiency level 1 for all groups.

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 374 Part 3: 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 gloves

Leather gloves

• Eye protection:

Safety glasses.

(Contd. on page 6)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 5)

- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

• Information on basic physical and chemical properties	
• General Information	
• Appearance:	
Form:	Solid
Colour:	Beads Beige
• Odour:	Odourless
• Odour threshold:	Not determined.
• pH-value at 20 °C:	7-11
• Change in condition	
Melting point/Melting range:	>400 °C (Zeolite, OECD TG 102)
Boiling point/Boiling range:	Not determined
• Flash point:	Not determined.
• Flammability (solid, gaseous):	Product is not flammable.
• Ignition temperature:	Not available.
• Decomposition temperature:	Not applicable.
• Self-igniting:	Not determined.
• Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
• Vapour pressure:	Not applicable.
• Density:	Not determined.
• Relative density	Not determined.
• Vapour density	Not applicable.
• Evaporation rate	Not applicable.
• Solubility in / Miscibility with	
water:	Insoluble.
• Partition coefficient (n-octanol/water):	Not determined.
• Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 7)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 6)

- 10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- Information on the likely routes of exposure**
- Delayed and immediate effects and chronic effects from short or long term exposure**
- Information on toxicological effects**
- Acute toxicity**

- LD/LC50 values relevant for classification:**

1318-02-1 zeolite (crystalline aluminosilicate)

Oral	LD50	> 5110 mg/kg (rat) (OECD TG 401)
Dermal	LD50	>5000 mg/kg (rabbit) (OECD TG 402)
Inhalative	LC0	> 3350 mg/m ³ /4h (rat) IUCLID Dataset 18-Feb-2000

- Primary irritant effect:**

- Skin corrosion/irritation**

1318-02-1 zeolite (crystalline aluminosilicate)

Skin	IS	0 (rabbit) (OECD TG 404)
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Based on available data, the classification criteria are not met.

- Serious eye damage/irritation**

1318-02-1 zeolite (crystalline aluminosilicate)

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

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

- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- Respiratory sensitisation** No further relevant information available.

- Skin sensitisation** No further relevant information available.

- Repeated dose toxicity**

1318-02-1 zeolite (crystalline aluminosilicate)

Oral	NOAEL (90 d)	250-300 mg/kg bw/day (rat) subchronic oral repeated dose
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- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- Carcinogenicity**

1318-02-1 zeolite (crystalline aluminosilicate)

Oral	NOAEL	≥ 1000 ppm (rat)
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- Mutagenicity**

1318-02-1 zeolite (crystalline aluminosilicate)

Oral	CHO	>0.5 mg/kg bw (rat) (OECD TG 474) no genotoxic effects
	AMES Test	>0.1 mg/plate (Salmonella typhimurium) (OECD TG 471) negative with and without metabolic activation
	Mouse Lymphoma Test	>0.08 mg/ml (L5178Y) (OECD TG 476) no genotoxicity; cytotoxicity >0,02 mg/ml (without metabolic activation); >0,08 with metabolic activation
	CHO	0.067 mg/l (Chinese Hamster Ovary) (OECD TG 473) cytotoxic 0,0671-0,725 mg/l without metabolic activation; 0,313-0,4 with metabolic activation

(Contd. on page 8)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 7)

· Reproductive toxicity		
1318-02-1 zeolite (crystalline aluminosilicate)		
Oral	NOAEL (maternal toxicity)	≥ 1600 mg/kg bw/day (rat) (OECD 414) ≥ 1600 mg/kg bw/day (rabbit) (OECD 414)
	NOAEL (teratogenicity)	≥ 1600 mg/kg bw/day (rat) (OECD 414) ≥ 1600 mg/kg bw/day (rabbit) (OECD 414)

- **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.
- **Specific target organ toxicity (single exposure)** No further relevant information available.
- **Specific target organ toxicity (repeated exposure)** No further relevant information available.
- **Aspiration hazard** No further relevant information available.
- **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.

SECTION 12: Ecological information**· Toxicity**

- **Aquatic toxicity:** No further relevant information available.

· Fish toxicity**1318-02-1 zeolite (crystalline aluminosilicate)**

LC50 (96 h)	>680 mg/l (Pimephales promelas) (EPA 660/3-75/009)
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· Water flea toxicity**1318-02-1 zeolite (crystalline aluminosilicate)**

EC50 (24 h)	2808 mg/l (Daphnia magna) (OECD TG 202)
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· Algae toxicity**1318-02-1 zeolite (crystalline aluminosilicate)**

EC50 (96h)	>328 mg/l (Scenedesmus subspicatus) (OECD TG 201)
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· Bacterial toxicity**1318-02-1 zeolite (crystalline aluminosilicate)**

EC50 (16h)	950 mg/l (Pseudomonas putida) (DIN 38412/8)
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- **12.2 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.

- **12.3 Bioaccumulative potential** Does not accumulate in organisms

· **Behaviour in environmental systems:** Accumulation in organisms is not to be expected.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods**

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

(Contd. on page 9)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 8)

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.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	None
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	None
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	None
· Class	None
· 14.4 Packing group	
· ADR, IMDG, IATA	None
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only.

SECTION 15: Regulatory information

· Labelling according to Regulation (EC) No 1272/2008 None

· Hazard pictograms None

· Signal word None

· Hazard statements None

National regulations:

· Waterhazard class: WGK nwg (VwVwS Annex 1 of 30.07.2005): not hazardous to waters.

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 AlO₄ 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.

(Contd. on page 10)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 9)

EINECS/REACH (Europe)

IECSC (China)

PICCS (Philippines)

AICS (Australia)

KECI (Korea)

MITI (Japan)

· **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 MSDS:

Abteilung Sicherheit und Umweltschutz, GRACE Europe Holding GmbH.

· HS-Code 38249015**· Contact:**

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· The first date of preparation 26.02.2015**· Number of revision times and the latest revision date 4.9 / 19.10.2015**

(Contd. on page 11)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 10)

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 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

*** Data compared to the previous version altered.**

GB

(Contd. on page 12)

Trade name: SYLOBEAD® MS 514

(Contd. of page 11)

Annex: Exposure scenario**· Short title of the exposure scenario****· 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
- SU5 Manufacture of textiles, leather, fur

· Product category

- PC1 Adhesives, sealants
- PC2 Adsorbents
- PC8 Biocidal products (e.g. Disinfectants, pest control)
- PC9a Coatings and paints, thinners, paint removers
- PC9b Fillers, putties, plasters, modelling clay
- PC12 Fertilisers
- PC14 Metal surface treatment products, including galvanic and electroplating products
- PC15 Non-metal-surface treatment products
- PC18 Ink and toners
- PC19 Intermediate
- PC20 Products such as ph-regulators, flocculants, precipitants, neutralisation agents
- PC23 Leather tanning, dye, finishing, impregnation and care products
- PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids
- PC27 Plant protection products
- PC28 Perfumes, fragrances
- PC31 Polishes and wax blends
- PC32 Polymer preparations and compounds
- PC33 Semiconductors
- PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
- PC35 Washing and cleaning products (including solvent based products)
- PC37 Water treatment chemicals
- PC40 Extraction agents
- PC0 Other

· Process category

- PROC1 Use in closed process, no likelihood of exposure
- PROC2 Use in closed, continuous process with occasional controlled exposure
- PROC3 Use in closed batch process (synthesis or formulation)
- PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
- PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation

· Article category Not applicable.**· Environmental release category** ERC2 Formulation of preparations

(Contd. on page 13)

GB

Trade name: SYLOBEAD® MS 514

(Contd. of page 12)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use

Duration and frequency 5 workdays/week.

Physical parameters

Physical state Solid

Concentration of the substance in the mixture The substance is main component.

Other operational conditions

Other operational conditions affecting environmental exposure No special measures required.

Other operational conditions affecting consumer exposure Not required.

Other operational conditions affecting consumer exposure during the use of the product
Not applicable.

Risk management measures**Worker protection**

Organisational protective measures No special measures required.

Technical protective measures

Provide suction extractors if dust is formed.

Prevent formation of dust.

Personal protective measures

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

No special measures required.

Measures for consumer protection No special measures required.**Environmental protection measures****Air**

Exhaust air is cleaned in dedusting process.

No special measures required.

Water Do not allow to reach ground water, water bodies or sewage system.**Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Dispose of product residues with household waste.

Waste type Partially emptied and uncleaned packaging**Exposure estimation**

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.

GB