

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

- **1.1 Product identifier**
- **Trade name: SYLOBEAD® MS C 544**
- **1.2 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 weighing)
 - PROC14 Tableting, compression, extrusion, pelletisation, granulation
- **Environmental release category** ERC2 Formulation into mixture
- **Article category** Not applicable.

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- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
GRACE GmbH
In der Hollerhecke 1
D-67547 Worms
Tel.: +49 (0)6241 - 403 1549
FAX: +49 (0)6241 - 403 1211
- **Further information obtainable from:**
Abteilung Sicherheit und Umweltschutz, GRACE Europe Holding GmbH.
MSDS.Davison@grace.com
- **1.4 Emergency telephone number:** Tel.: +49 (0)172 7129276

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to CLP.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** None
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Crystalline aluminosilicate with binders.

· **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:**
Silica, crystalline (airborne particles of respirable size)

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Additional information:

Quartz is a natural occurring component of the binder. See note in Section 3.

SECTION 4: First aid measures**4.1 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**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 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.

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.

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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.

- **7.2 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.

- **8.1 Control parameters**

- **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)
		2.5-3 mg/kg bw /day (Worker)
Inhalative	DNEL(long-local)	3 mg/m ³ (Worker)

- **PNECs**

1318-02-1 zeolite (crystalline aluminosilicate)

PNEC	3.2 mg/l (aqua-freshwater) daphnia magna
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- **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:** Valid lists at time of creation were used as basis.

- **8.2 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
Suitable respiratory protective device recommended.

- **Protection of hands:**



Protective gloves.

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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 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.

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

SECTION 9: Physical and chemical properties

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

• **General Information**

• **Appearance:**

Form:	Solid Beads
Colour:	Beige

• Odour:	Odourless
• Odour threshold:	Not determined.

• pH-value at 20 °C:	7-11
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· Change in condition	
· Melting point/freezing point:	>400 °C (Zeolite, OECD TG 102)
· Initial boiling point and boiling range: Not determined	
· Flash point:	Not determined.
· Flammability (solid, gas):	Product is not flammable.
· Ignition temperature:	Not available.
· Decomposition temperature:	Not applicable.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	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

- **10.1 Reactivity** No further relevant information available.
- **10.2 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.
- **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**
- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
1318-02-1 zeolite (crystalline aluminosilicate)		
Oral	LD50	>5,110 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)

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Inhalative	LC0	>3,350 mg/m ³ /4h (rat) IUCLID Dataset 18-Feb-2000
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- **Primary irritant effect:**

• Skin corrosion/irritation		
1318-02-1 zeolite (crystalline aluminosilicate)		
Skin	IS	0 (rabbit) (OECD 404)

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

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

• Carcinogenicity		
1318-02-1 zeolite (crystalline aluminosilicate)		
Oral	NOAEL	≥1,000 ppm (rat)

• Mutagenicity		
1318-02-1 zeolite (crystalline aluminosilicate)		
Oral	CHO	>0.5 mg/kg bw (rat) (OECD 474) no genotoxic effects
	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 activation; >0,08 mg/ml with metabolic activation
	CHO	67 mg/l (Chinese Hamster Ovary) (OECD 473) cytotoxic: 0,0671-0,725 mg/l without metabolic activation; 0,313-0,4 mg/l 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) ≥1,600 mg/kg bw/day (rabbit) (OECD 414)

- **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.

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SECTION 12: Ecological information

· 12.1 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)

· **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)

· **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.

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

· **Additional ecological information:**

· **General notes:** Generally not hazardous for water

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 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.

· **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

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Trade name: SYLOBEAD® MS C 544

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<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	None
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class 	None
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	None
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · 14.6 Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Labelling according to Regulation (EC) No 1272/2008** None
 - **Hazard pictograms** None
 - **Signal word** None
 - **Hazard statements** None
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **National regulations:**
 - **Waterhazard class:**
 WGK nwg (AwSV of 18.04.2017): not hazardous to waters.
 WGK nwg (AwSV of 18.04.2017): 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.
- EINECS/REACH (Europe)
 IECSC (China)
 PICCS (Philippines)
 AICS (Australia)
 KECI (Korea)
 MITI (Japan)

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- **15.2 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:**

Abteilung Sicherheit und Umweltschutz, GRACE Europe Holding GmbH.

- **HS-Code** 3824 9915

- **Contact:**

Sales Offices

Germany

Grace GmbH, D-67545 Worms

Tel.: +49 6241/40300, Fax: +49 6241/4031211

BeNeLux

Jan Van Gentstraat 7, 2000 Antwerpen, Belgium

Tel.: +32 3 259 15 40

France:

31 route de Gallardon, F-28230 Epernon Cedex, France

Tel.: +33 9 72 58 23 07/06, Fax: +33 2 37 18 86 90

Italy

Grace Italy srl - Via Trento 7, 20017 Passirana di Rho MI, Italy

Tel.: +39 02 931488.20, Fax: +39 02 931488.60

Poland

Grace Sp. z o.o., ul. Szczepanowskiego 10/2, 60-541 Poznan, Polska

Tel.: +48 61 843 2174, Fax: +48 61843 2175

Russia

Grace GmbH, 18, 3-ya ul. Yamskogo Polya, Moscow 125040

Tel.: +7-495-9374919 / +7-495-221721, Fax: +7-495-93

Spain

Grace GmbH – Sucursal en España,

WTC Almeda Park; Plaça de la Pau s/n, Mòdul B; Edificio 3, planta 2

08940 Cornellà de Llobregat (Barcelona)

Tel.: +34 934 696 978; Fax: +34 934 717 911

South Africa

Grace Products SA (PTY) Ltd

C/O Mazars House

Rialto Road

Grand Moorings Precinct

Century City, 7441

South Africa

Tel: +27 21 818 5273 | Fax: +27 86 405 0585

UK

Grace, Oak Park Business Centre, Alington Road, Little Barford,

St. Neots, Cambridgeshire PE19 6WL, United Kingdom

Tel.: +44 1480/324430, Fax: +44 1480/324433

- **The first date of preparation** 13.06.2016
- **Number of revision times and the latest revision date** 6.1 / 30.11.2017

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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

- **Others** No further relevant information available.

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

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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
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- SU15 Manufacture of fabricated metal products, except machinery and equipment
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- SU19 Building and construction work
- SU5 Manufacture of textiles, leather, fur

· **Product category**

- PC1 Adhesives, sealants
- PC2 Adsorbents
- PC8 Biocidal products
- PC9a Coatings and paints, thinners, paint removers
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- PC15 Non-metal-surface treatment products
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- 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 weighing)
- PROC14 Tableting, compression, extrusion, pelletisation, granulation

· **Article category** Not applicable.

· **Environmental release category** ERC2 Formulation into mixture

· **Description of the activities / processes covered in the Exposure Scenario**

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

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- **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.
- **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.

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