Safety Data Sheet acc. to OSHA HCS

Version: 25.3

Reviewed on 02/08/2019

1 Identification

- · Product identifier
- Trade name: SYLOSIV® K 300
- · Application of the substance / the preparation: Intermediate product of varied applicability in industry and trade.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: GRACE W. R. Grace & Co.-Conn 7500 Grace Drive Columbia MD 21044 U. S. A.
- · Information department: Health and Safety (9 AM to 5 PM-EST) 1-410-531-4000 MSDS.Davison@grace.com
- · Emergency telephone number: Chemtrec North America: +1-800-424-9300 Chemtrec International: +1-703-527-3887 Other Emergencies (24hr): +1-410-531-4000

2 Hazard(s) identification

- · Classification of the substance or mixture
- The substance is not classified, according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1Fire = 0Reactivity = 0

0

· HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
		Fire = 0
REACTIVITY	0	Reactivity =

Hazard not otherwise classified

The product is very adsorbent and may have a drying effect on skin and eyes. When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

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100%

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · Description:
- · CAS No. and description:
- 1318-02-1 zeolites

4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Generally the product does not irritate the skin.

- Wash with water.
- After eye contact:

Flush opened eye with large quantities of running water for at least 30 minutes. If symptoms occur, consult a doctor.

- · After swallowing: Seek medical attention. Do not induce vomiting.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Hazardous combustion products No further relevant information available.
- · Advice for firefighters

• Protective equipment: Wear personal protective equipment.

- No special measures required.
- Additional information

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

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:

Vacuuming or wet sweeping may be used to avoid dust dispersal.

- Reference to other sections No dangerous substances are released.
- Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

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· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

· Handling:

· Precautions for safe handling

Prevent formation of dust.

Keep receptacles tightly sealed. Provide suction extractors if dust is formed.

Any deposit of dust which cannot be avoided must be regularly removed.

Take precautionary measures against static discharges.

· Information about protection against explosions and fires: When transferring this material into flammable solvents, use proper grounding to avoid static electric sparks. 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: Keep receptacle tightly sealed. Store in dry conditions. This product is hygroscopic.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

	ponents with limit values that require monitoring at the workplace: -02-1 zeolites
PEL	Long-term value: *15 **5 mg/m ³ OSHA, *Total Dust, **Respirable Dust
· Addi	tional Occupational Exposure Limit Values for possible hazards during processing:
Dust	inhalable
PEL	Long-term value: 15 mg/m ³ TWA
REL	Long-term value: 15 mg/m ³ TWA
Dust	respirable
PEL	Long-term value: 5 mg/m ³ TWA
REL	Long-term value: 5 mg/m ³ TWA
· Addi	tional information: Valid lists at time of creation were used as basis. (Contd. on page of the second secon



· Odor threshold:

· pH-value at 20 °C (68 °F):

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 Exposure controls Personal protective equipring 	ment:
 General protective and hyperbolic structure in the second structu	gienic measures: asures for handling chemicals should be followed.
· Protection of hands:	
Protective gloves	
Check protective gloves prio Check the permeability prior Use gloves of stable materia	on against mechanical hazards. or to each use for their proper condition. to each new use of the glove. al (e.g. Nitrile) e impermeable and resistant to the product/ the substance/ the
preparation. Selection of the glove materi degradation	ial on consideration of the penetration times, rates of diffusion and the
• Material of gloves Butyl rubber, BR Nitrile rubber, NBR Recommended thickness of	the material: \geq 0.11 mm
• For the permanent contact gloves made of the followi Butyl rubber, BR Nitrile rubber, NBR	t in work areas without heightened risk of injury (e.g. Laboratory) ing material are suitable:
• For the permanent contact Butyl rubber, BR Nitrile rubber, NBR	t gloves made of the following materials are suitable:
 Not suitable are gloves ma Strong fabric gloves Leather gloves 	ade of the following materials:
· Eye protection:	
Safety glasses	
· Body protection: Protective	e work clothing
9 Physical and chemica	I properties
 Information on basic phys General Information 	ical and chemical properties
 Appearance: Form: 	Powder
Color:	White
· Odor:	Odorless

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Not available.

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	(Contd. of page 4)
· Change in condition	
Melting point/Melting range:	> 400 °C (>752 °F) (Zeolite, OECD TG 102)
Boiling point/Boiling range: · Conditions of flammability	Not determined.
Flash point:	Not available.
 Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: 	Product is not flammable. Not available. Not available.
· Auto igniting:	Product is not self-igniting.
 Danger of explosion: Explosion limits: 	Product does not present an explosion hazard.
Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C (68 °F):	- hPa
 Density at 20 °C (68 °F): Bulk density at 20 °C (68 °F): Specific Gravity Vapor density 	2.1 g/cm ³ (17.5245 lbs/gal) 400 kg/m ³ Not available Not applicable.
· Evaporation rate	Not applicable.
 Solubility in / Miscibility with Water: Coefficient of water/oil distribution 	Insoluble. on: Not available.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	- mPas Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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 that are relevant for classification	
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1318-02-1 zeolites

Oral LD50 >5,110 mg/kg (rat) (OECD 401)

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Dermal		(Contd. of
Dermal		>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LCO	>3,350 mg/m ³ /4h (rat) IUCLID Dataset 18-Feb-2000
Duinnanai		
Primary in		effect:
on the ski		ion with dynamic and obvious
1318-02-1		ion with dryness and abrasion.
		IS 0 (rabbit) (OECD 404)
on the ey No irritatin	e: g effec	it.
1318-02-1		
Irritation o	feyes	IS 0.7-1.3 (rabbit) (OECD 405) Corneal opacity
Skin sens	itizatio	n No further relevant information available.
Additiona	I toxic	ological information:
Carcinog		
-		anal Agency for Research on Cancer)
	///////////////////////////////////////	
	anal T	oxicology Program)
Substance		
	•	pational Safety & Health Administration)
Substance		
Repeated		-
1318-02-1		
Oral NOA	EL (90	d) 250-300 mg/kg bw/day (rat) subchronic oral repeated dose
CMD offo	ata (aa	ircinogenity, mutagenicity and toxicity for reproduction)
Carcinog	•	
1318-02-1	•	
		,000 ppm (rat)
Mutageni 1318-02-1		
	Jnuciet	us-Test 5,000 mg/kg bw (mouse) (OECD 474) Genotoxicity: negative (male/female)
	S Test	
	5 1001	negative with and without metabolic activation
HPR	T Test	
		no genotoxicity; cytotoxicity: >0,02 mg/ml without metabolic acivation; >0,08 mg/ml w
		metabolic activation
Reproduc		-
1318-02-1		
Oral NOA	EL (ma	aternal toxicity) ≥1,600 mg/kg bw/day (rat) (OECD 414)
		≥1,600 mg/kg bw/day (rabbit) (OECD 414)
NOA	EL (ter	ratogenicity) ≥1,600 mg/kg bw/day (rat) (OECD 414)
I		≥1,600 mg/kg bw/day (rabbit) (OECD 414)

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• Specific target organ toxicity (repeated exposure) No further relevant information available.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:
- · Fish toxicity
- 1318-02-1 zeolites

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

- Water flea toxicity
- 1318-02-1 zeolites

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

- · Algae toxicity
- 1318-02-1 zeolites
- EC50 (96h) >328 mg/l (Scenedesmus subspicatus) (OECD 201)
- · Bacterial toxicity

1318-02-1 zeolites

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

· Persistence and degradability

Being an inorganic product, it cannot be removed from water by biological cleaning processes. • Other information:

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

- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · 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.

13 Disposal considerations

· Recommendation:

Disposal must be made according to official regulations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State/provincial and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state/ provincial and local requirements.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	None	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	None	



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· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	None	
 Packing group DOT, ADR, IMDG, IATA 	None	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
 Transport/Additional information: 	Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only.	

15 Regulatory information

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

- · SARA
- · SARA 302/304

Substance is not listed.

· SARA 313

Substance is not listed.

· TSCA (Toxic Substances Control Act):

EPA has defined zeolites as complex chemical products consisting of silica (SiO2) and alumina (Al2O3), in various proportions, plus metallic oxides and certain cations. Zeolites are considered for TSCA purposes to be statutory mixtures of the substances used to manufacture them.

Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

- · Chemicals known to cause developmental toxicity:
- Substance is not listed.
- Carcinogenic categories
- · EPA (Environmental Protection Agency)

Substance is not listed.

• TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

\cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

Canadian DSL

Zeolites are considered for DSL purposes to be mixtures of the substances used to manufacture them.

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Canadian NDSL
 Substance is not listed.

- · European EINECS
- Substance is listed.
- · Philippines Inventory of Chemicals and Chemical Substances PICCS
- Substance is listed.
- Inventory of the Existing Chemical Substances manufactured or imported in China IECSC Substance is listed.
- · Australian Inventory of Chemical Substances AICS
- Substance is listed.
- Existing and New Chemical Substance List ENCS
- · Korean Existing Chemical Inventory KECI

KE-35511

1-26

· TCSCA (Taiwan)

EPEP4A01713969

- · New Zealand Inventory of Chemicals (NZIoC)
- Substance is listed.
- · GHS label elements None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None

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: GRACE Safety & Health Department
- · Tarif number 2842 1000
- · Contact: SALES OFFICES

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

Europe: Grace GmbH In der Hollerhecke 1 D-67545 Worms, Germany Tel: +49 6241 4030

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



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V K 20 J T F D T N A ROKA IMDIANHLLP V ZOT P R	 (1*#). +60 21 3403 1300 <i>V</i>. R. Grace Japan K.K ohken New River Bldg 3F -21-18, Shinkawa -21-18, Shinkawa -21-19, Shinkawa -21-18, Shinkawa -21-18, Shinkawa -21-18, Shinkawa -21-18, Shinkawa -21-19, Shinkawa -21-19	
	Data compared to the previous version altered.	
		USA