

Printing date 01/18/2017 Reviewed on 01/18/2017

1 Identification

- · Product identifier
- · Trade name: Viva Zym
- · Application of the substance / the mixture

Laundry Detergent

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SEITZ GmbH

Gutenbergstrasse 1 - 3 65830 Kriftel / Germany Tel. + 49(0) 6192-9948-0

Fax + 49(0) 6192-9948-99 order@seitz24.com

www.seitz24.com

· Information department:

CHEM-TEL Inc. 1305 North Florida Ave Tampa Florida 33602

· Emergency telephone number: 1-800-255-3924

2 Hazard(s) identification

· Classification of the substance or mixture

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

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· CAS-No. Components:				
CAS: 57-55-6	1,2-propanediol	25 - 50%		
CAS: 9014-01-1	subtilisin	< 0.25%		

· Additional information For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- · General information Immediately remove any clothing soiled by the product.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately rinse with water.

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· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- · 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

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents No further relevant information available.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

· 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 equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Ensure adequate ventilation

- · Environmental precautions: Do not allow product to reach sewage system or any water course.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling

Keep away from heat and direct sunlight.

Avoid contact with eyes and skin.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

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- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Time of storage: max. 12 month

· Specific end use(s) Laundry

8 Exposure controls/personal protection

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

· Components with limit values that require monitoring at the workplace:				
CAS: 57-55-6 1,2-propanediol				
WEEL (USA)	Long-term value: 10 mg/m³			
EV (Canada)	Long-term value: 155* 10** mg/m³, 50* ppm *vapour and aerosol;**aerosol only			
CAS: 9014-01-1 subtilisin				
REL (USA)	Short-term value: 0.00006* mg/m³ *60-min			
TLV (USA)	Ceiling limit value: 0.00006 mg/m³ as 100% crystalline active pure enzyme			
EL (Canada)	Ceiling limit value: 0.00006 mg/m³ S			
EV (Canada)	Ceiling limit value: 0.00006 mg/m³			

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

· Breathing equipment:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

· Protection of hands:

Protective gloves.

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

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· Material of gloves

Nitrile rubber, NBR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing recommened

9 Physical and chemical properties				
Information on basic physical and chemical properties General Information				
· Appearance: Form:	Fluid			
Color:	Light yellow			
· Odor:	Product specific			
· Odor threshold:	No further relevant information available.			
· pH-value at 20 °C (68 °F):	~ 6.9			
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	undetermined undetermined			
· Flash point:	Not applicable			
· Flammability (solid, gaseous)	No further relevant information available.			
· Ignition temperature:	No further relevant information available.			
· Decomposition temperature:	No further relevant information available.			
· Auto igniting:	Product is not selfigniting.			
· Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits:Lower:Upper:Oxidizing properties	No further relevant information available. No further relevant information available. No further relevant information available.			
· Vapor pressure:	No further relevant information available.			
· Density at 20 °C (68 °F):	~ 1.03 g/cm3 (ISO 2811)			
· Relative density	No further relevant information available.			
· Vapor density	No further relevant information available.			
· Evaporation rate	No further relevant information available.			
 Solubility in / Miscibility with Water: 	Fully miscible			
· Partition coefficient (n-octanol/water): No further relevant information available.				
· Viscosity: dynamic:	No further relevant information available.			

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kinematic: No further relevant information available.Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability

Stable under normal ambient conditions.

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions None if used as directed.
- · Conditions to avoid Prevent formation of aerosols.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

 I D/I C50 	values that are	e relevant for	classification:

CAS: 57-55-6 1,2-propanediol

Oral LD50 22000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

CAS: 9014-01-1 subtilisin

Oral LD50 1800 mg/kg (rat) (OECD TG 401)

- · on the skin: Based on available data, the classification criteria are not met.
- on the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

CAS: 57-55-6 1,2-propanediol

EC50 24200 mg/l (Aquatic plants, algae) (72 h; Scenedesmus capricornutum)

> 100 mg/l (Aquatic invertebrates) (48 h; Daphnia)

LC50 40613 mg/l (Fish) (96 h; Oncorhynchus mykiss)

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CAS: 9014-01-1 subtilisin

LC50 8.2 mg/l (Fish) (96 h; OECD 203)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- · Recommendation:

Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping nameDOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications
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· UN "Model Regulation": Void

15 Regulatory information

- · Canadian substance lists
- · Canadian domestic substance list (DSL):

All ingredients are listed.

· Canadian ingredient disclosure list (limit 0.1%):

None of the ingredients is listed.

· Canadian ingredient disclosure list (limit 1%):

CAS: 57-55-6 1,2-propanediol

- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· New Jersey Right-to-Know List:

CAS: 57-55-6 1,2-propanediol

· New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

· Pennsylvania Right-to-Know List:

CAS: 57-55-6 1,2-propanediol

· Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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

None of the ingredients is listed.

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- · National regulations
- · Other regulations, limitations and prohibitive regulations
- · Please note:

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

· Other information: The product has been designed for professional use only.

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.

- Date of preparation / last revision 01/18/2017 / 2
- Abbreviations and acronyms:

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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 vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

· * Data compared to the previous version altered.

- US