

# according to 29 CFR 1910.1200(g)

# VITA ZETA HLC BOND

Revision date: 17.01.2023

Product code: 048

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## 1. Identification

# Product identifier

VITA ZETA HLC BOND

# Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Use as laboratory reagent

## Details of the supplier of the safety data sheet

Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +49(0)7761-562-299
e-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
e-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	
<u>mergency phone number:</u>	+49-(0)761-19240	

#### Further Information

medical device

# 2. Hazard(s) identification

#### **Classification of the chemical**

## 29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

#### Label elements

## Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

## **Mixtures**

#### Hazardous components

CAS No	Components	Quantity
13463-67-7	Titanium dioxide	59 %

# 4. First-aid measures

# **Description of first aid measures**

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

## After ingestion

Rinse mouth immediately and drink plenty of water.

# Most important symptoms and effects, both acute and delayed

No information available.

#### Indication of any immediate medical attention and special treatment needed



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Treat symptomatically.

# 5. Fire-fighting measures

## Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Specific hazards arising from the chemical

Non-flammable.

## Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

#### General advice

Avoid dust formation. Do not breathe dust.

#### **Environmental precautions**

Do not allow to enter into surface water or drains.

# Methods and material for containment and cleaning up

## Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

## Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

## 7. Handling and storage

#### Precautions for safe handling

## Advice on safe handling

No special measures are necessary.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

## Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

# Hints on joint storage

No special measures are necessary.

# 8. Exposure controls/personal protection

## **Control parameters**



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# **Exposure limits**

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	PEL

## Exposure controls



## Individual protection measures, such as personal protective equipment

# Eye/face protection

Wear eye/face protection.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles NBR (Nitrile rubber) KCL Dermatril P

## Skin protection

Wear suitable protective clothing.

# **Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

Physical state:	solid
Color:	
Odor:	characteristic
Changes in the physical state	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	?
Flash point:	not applicable
Flammability	
Solid/liquid:	not determined
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Self-ignition temperature	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	No
Solubility in other solvents	
not determined	



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Partition coefficient n-octanol/water:	not determined	
Vapor pressure:	not determined	
Density:	not determined	
Relative vapour density:	not determined	
Other information		
Information with regard to physical hazard	classes	
Oxidizing properties Not oxidising.		
Other safety characteristics		
Solid content:	100,0 %	
Evaporation rate:	not determined	
Further Information		

# 10. Stability and reactivity

## **Reactivity**

No hazardous reaction when handled and stored according to provisions.

## **Chemical stability**

The product is stable under storage at normal ambient temperatures.

# Possibility of hazardous reactions

No known hazardous reactions.

## Conditions to avoid

none

## Incompatible materials

No information available.

## Hazardous decomposition products

No known hazardous decomposition products.

# 11. Toxicological information

# Information on toxicological effects

## Acute toxicity

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

CAS No	Components					
	Exposure route	Dose		Species	Source	Method
13463-67-7	Titanium dioxide					
		LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD 401

## Irritation and corrosivity

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

## Sensitizing effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

## Specific target organ toxicity (STOT) - single exposure

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



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# Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the	classification criteria are not met.			
Carcinogenicity (OSHA):	No ingredient of this mixture is listed.			
Carcinogenicity (IARC):	Titanium dioxide (CAS 13463-67-7) is listed in group 2B.			
Carcinogenicity (NTP):	No ingredient of this mixture is listed.			
Aspiration hazard				

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

# 12. Ecological information

## **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Components							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
13463-67-7	Titanium dioxide							
	Acute fish toxicity	LC50 mg/l	>100	96 h	Carassius	REACH Registration Dossier	OECD Guidline 203	
	Acute algae toxicity	ErC50	>50 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guidline 201	
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Artemina salina	REACH Registration Dossier	OECD Guidline 202	
	Fish toxicity	NOEC mg/l	>=80	6 d	Danio rerio	REACH Registration Dossier	OECD TG 210	
	Algae toxicity	NOEC	>=1 mg/l	32 d	Synedra ulna, Scenedesmus quadricauda, Stigeocloni	Environ. Tox. Chem. 31,2414-2422 (2012)	In this study, the authors report there	
	Crustacea toxicity	NOEC	>1 mg/l	10 d	Chironomus riparius	REACH Registration Dossier	other: OECD Guideline 219	
	Acute bacteria toxicity	(EC50 mg/l)	>1000	3 h	activated sludge, domestic	REACH Registration Dossier	OECD Guideline 209	

# Persistence and degradability

The product has not been tested.

## Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Components	BCF	Species	Source
13463-67-7	Titanium dioxide	>0.47-<3.19	Artemia salina	REACH Registration D

# Mobility in soil

The product has not been tested.

## Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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# Other adverse effects

No information available.

# **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# 13. Disposal considerations

# Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# 14. Transport information

# Marine transport (IMDG)

Marine transport (IMDG)	
UN number or ID number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc
	oxide)
Transport hazard class(es):	9
Packing group:	III
Hazard label:	9
	9
Special Provisions:	274, 335, 966, 967, 969
Limited quantity:	5 kg
Excepted quantity:	E1
EmS:	F-A, S-F
Air transport (ICAO-TI/IATA-DGR)	
UN number or ID number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc
	oxide)
Transport hazard class(es):	9
Packing group:	III
Hazard label:	9
	9
Special Provisions:	A97 A158 A179 A197
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y956
Excepted quantity:	E1
IATA-packing instructions - Passenger:	956
IATA-max. quantity - Passenger:	400 kg
IATA-packing instructions - Cargo:	956
IATA-max. quantity - Cargo:	400 kg
Environmental hazards	



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# 15. Regulatory information

## U.S. Regulations

# National regulatory information

SARA Section 311/312 Hazards: Titanium dioxide (13463-67-7): Delayed (chronic) health hazard

## State Regulations

# Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

## Changes

Revision date:

Revision No:

This data sheet contains changes from the previous version in section(s): 14.

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## 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 IATA: International Air Transport Association GHS: Globally Harmonized 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

# Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)