

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 9 of 17

Dust formation Provide earthing of containers, equipment, pumps and ventilation facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

IF exposed or concerned: Suitable eye protection: DIN EN 166

Eye glasses with side protection

Goggles

Hand protection

Suitable gloves type EN ISO 374

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.

Suitable material: PVC (polyvinyl chloride)

Thickness of the glove material : $\geq 0,5$ mm

Breakthrough times and swelling properties of the material must be taken into consideration. Observe the wear time limits as specified by the manufacturer.

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. Wear cotton undermitten if possible.

Skin protection

Antistatic protective clothing.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values, Formation of: dust/mist /Vapour.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Particle filter device (EN 143)

Formation of: Vapour

Type A2, Ambient air-independent breathing apparatus (insulating apparatus)

Thermal hazards

Formation of organic vapours.

Do not breathe mist/vapours/spray.

Incineration

Environmental exposure controls

Dust must be exhausted directly at the point of origin.

Safety Data Sheet

according to UK REACH Regulation

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 10 of 17

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid	
Colour:	Various	
Odour:	Odourless	
Melting point/ freezing point:	No data available	Test method
Boiling point or initial boiling point and Boiling range:		
Flammability		
Solid/ liquid:	>300 °C	
Gas:	No data available	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Flash point:	No data available	
Decomposition temperature:	>350° C	
pH-Value:		
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents		
miscible with most organic solvents		
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Density:	~1,17 g/cm ³	
Relative vapour density:	not determined	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

May form combustible dust concentrations in air.

Sustaining combustion: No data available

Self-ignition temperature

Solid: No Data available

Gas: No data available.

Oxidizing properties

Not oxidizing.

Other safety characteristics

Evaporation rate: No data available

Solid content: 100%

Sublimation point: No data available

Softening point: >90°C °C ISO 306

Pour point: No data available

Viscosity / dynamic: No data available

Further Information

No information available.

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 11 of 17

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

May form combustible dust concentrations in air.

10.4. Conditions to avoid

Heat

Generation/formation of dust : Avoid dust formation.

Take precautionary measures against static discharges. Take action to prevent static discharges.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide Monomers

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
4702-90-3	4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4- < 1 %yliden)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-on				
	oral	LD50 >6400 mg/kg			
	dermal	LD50 >2500 mg/kg			
81-48-1	1-Hydroxy-4-(p-toluidino)-anthrachinon				
	oral	LD50 >5000 mg/kg	Rate		OECD 401
13463-67-7	Titanium dioxide				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD 401

Safety Data Sheet

according to UK REACH Regulation

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 12 of 17

Irritation and corrosivity

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

Sensitising effects

Contains 1-hydroxy-4-(p-toluidino)-anthraquinone. May cause allergic reactions.

Carcinogenic/mutagenic/toxic effects for reproduction

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

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.

Practical experience

The melted product can cause severe burns.

11.2. Information on other hazards

Endocrine disrupting properties

No data available.

Further information

Calculation method.

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

Safety Data Sheet

according to UK REACH Regulation

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 13 of 17

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
4702-90-3	4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one					
	Acute fish toxicity	LC50 mg/l	22.7	96 h	Danio rerio (zebrafish)	OECD 203
	Acute algae toxicity	ErC50	>1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	>0.407	48 h	Daphnia magna (big water flea)	OECD 202
	Acute bacteria toxicity	(EC50 mg/l)	>1000	0 h	Activated sludge	
81-48-1	1-Hydroxy-4-(p-toluidino)-anthrachinon					
	Acute fish toxicity	LC50 mg/l	>500	96 h	Oncorhynchus mykiss (rainbow trout)	OECD 203
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (big water flea)	OECD 202
	Algae toxicity	NOEC mg/l	=>1.1	3 d	Desmodesmus subspicatus	(EC) Nr. 440/2008, Anhang, C.3
	Acute bacteria toxicity	(EC50 mg/l)	>320		Activated sludge	OECD 209
13463-67-7	Titanium dioxide					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Carassius	REACH Registration Dossier OECD Guideline 203
	Acute algae toxicity	ErC50	>50 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Artemina salina	REACH Registration Dossier OECD Guideline 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

Safety Data Sheet

according to UK REACH Regulation

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 14 of 17

12.2. Persistence and degradability

The product is: Not readily biodegradable (according to OECD criteria).

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
4702-90-3	4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4- < 1 %yliden)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-on			
	OECD301F	0%	28	
81-48-1	1-Hydroxy-4-(p-toluidino)-anthrachinon			
	(EC) Nr.440/2008,Anhang, C.4-D	0%	28	

12.3. Bioaccumulative potential

No further relevant information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
4702-90-3	4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4- < 1 %yliden)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-on	5.02
81-48-1	1-Hydroxy-4-(p-toluidino)-anthrachinon	4.2

BCF

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

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. 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.

12.7. Other adverse effects

No information available.

Further information

water hazard class: nwg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. (AVV 120105, 160306)

Non hazardous waste according to Directive 2008/98/EC (waste framework directive).

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 15 of 17

Flue-gas dust /Dust:

Place in a designated, marked waste container.

Put lids on containers immediately after use.

List of Waste code – Residues/ unused product

160306

WASTES NOT OTHERWISE LISTED IN THE DIRECTORY; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05.

Contaminated Packaging

Dispose of waste according to applicable legislation.

Completely emptied packages can be recycled.

Collect the waste separately.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.2. UN proper shipping name:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.3. Transport hazard class(es):</u>	Not a hazardous material as defined by these transport regulations.
<u>14.4. Packing group:</u>	Not a hazardous material as defined by these transport regulations.

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.2. UN proper shipping name:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.3. Transport hazard class(es):</u>	Not a hazardous material as defined by these transport regulations.
<u>14.4. Packing group:</u>	Not a hazardous material as defined by these transport regulations.

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.2. UN proper shipping name:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.3. Transport hazard class(es):</u>	Not a hazardous material as defined by these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number or ID number:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.2. UN proper shipping name:</u>	Not a hazardous material as defined by these transport regulations.
<u>14.3. Transport hazard class(es):</u>	Not a hazardous material as defined by these transport regulations.

Safety Data Sheet

according to UK REACH Regulation

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 16 of 17

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Not a hazardous material as defined by these transport regulations.

14.7. Maritime transport in bulk according to IMO instruments

Not a hazardous material as defined by these transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)
(SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No 1272/2008 [CLP]
Directive (EU) 2018/851 of the European Parliament and of the Council of 30 May 2018 amending Directive
Directive 2008/98/EC on waste
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing
certain Directives repealing certain Directives

National regulatory information

Water hazard class (D): - - non-hazardous to water

Additional information

Germany Please note:
<https://sicheres-dentallabor.bgetem.de/dentallabor>
DGUV Regulation 113-606 "Part 1: Injection Moulding
Dust fires and dust explosions - Hazards - assessment - safety measures

Ordinance on Installations for Handling Substances Hazardous to Water (AwSV)

TRGS 220, TRGS 400ff., TRGS 500, TRGS 722-724, TRGS 800, TRGS 900

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Titanium dioxide

4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)methyl]

-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,9,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulation on the

VITA VIONIC BASE DISC HI

Revision date: 30.05.2023

Product code: 3086

Page 17 of 17

Regulations concerning the International Carriage of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International air transport association

ICAO: International Civil Aviation Organization

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally harmonized system of classification and labelling of chemicals

CLP: Classification labelling packaging regulation; Regulation (EC) No 1272/2008

LC50: lethal concentration, 50%

LD50: lethal dose, 50%

EC50: mean effective concentration, 50%

DNEL: Derived-No effect level

PNEC: Predicted No-Effect concentration PBT:

persistent, bioaccumulative and toxic vPvB:

very persistent and very bioaccumulative

IATA-DGR: Gefahrgut-Regelungen der "International Air Transport Association" (IATA)

ICAO-TI: Technische Anweisungen der "International Civil Aviation Organization" (ICAO)

Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains 1-Hydroxy-4-(p-toluidino)-anthrachinon. May produce an allergic reaction. EUH210 Safety data sheet available on request.

Further Information

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.)