

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : ZBase Accelerator

Article-No. : 2151/2152

Revision date : 11.10.2019

Version : 1.0 /en

Print date : 11.10.2019

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

1.1 Product identifier

Commercial Product Name ZBase Accelerator

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Auxiliary for dental technology

1.3 Details of the supplier of the safety data sheet

Company designation HPdent GmbH
Erwin-Dietrich-Straße 5
78244 Gottmadingen
+49 7731 38 11 044
+49 7731 31 97 123
info@hpdent.com

Responsible Department During opening hours: +49 7731 38 11 044 Opening hours Mo – Th
from 8.30 a.m. to 5 p.m. / Fr from 08.30 a.m. to 4 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Reg- Acute toxicity (oral) Acute Tox. 3
ulation (EC) No. 1272/2008 Acute toxicity (dermal) Acute Tox. 3
Acute toxicity (inhalative) Acute Tox. 2
Skin Irrit. 2
Eye Irrit. 2
Asp. Tox. 1
Flam. Liq. 2

2.2 Label elements

Hazard pictogram



GHS02



GHS06



GHS08

Signal word

Danger

H-statement(s)

H301: Toxic if swallowed.
H304: May be fatal if swallowed and enters airways.
H311: Toxic in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

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P-statement(s)	<p>H330: Fatal if inhaled. H373: May cause damage to organs through prolonged or repeated exposure . H336: May cause drowsiness or dizziness.</p> <p>P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER/doctor/ ... if you feel unwell. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.</p>
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
heptane [and isomers]	CAS No. : 142-82-5 EC-No. : 205-563-8 Index-No. : 601-008-00-2	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	approx. 65.0 – 75.0 % by weight
acetone; propan-2-one; propanone	CAS No. : 67-64-1 EC-No. : 200-662-2 Index-No. : 606-001-00-8	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	approx. 15.0 – 25.0 % by weight
N,N-dimethyl-p-tolui- dine	CAS No. : 99-97-8 EC-No. : 202-805-4 Index-No. : 612-056-00-9		approx. 5.0 – 15.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. Call a physician immediately.
In case of skin contact	Wash with plenty of soap and water. Take off contaminated clothing. Call a doctor if you feel unwell. Wash contaminated clothing before reuse.

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In case of eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

If swallowed

Do NOT induce vomiting. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

IF IN EYES: Causes eye irritation.

IF ON SKIN: Gently wash with plenty of soap and water. Take off immediately all contaminated clothing. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). In case of persisting adverse effects, consult a physician.

IF SWALLOWED: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

IF INHALED: Repeated inhaling can lead to permanent illness of the respiratory tract.

Prolonged or repeated exposure may cause skin dermatitis, central nervous system depression and lung damage.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder, Foam, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Flam. Liq. 2

Highly flammable

Combustible by-products of carbon monoxide/dioxide.

Danger of bursting container. Cool closed containers that are near the source of the fire.

5.3 Advice for firefighters

Special protective equipment for firefighting

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

Additional information on firefighting

Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not perforate, cut or weld uncleaned containers. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). Heating may cause a fire or explosion. Danger of bursting container. Cool closed containers that are near the source of the fire.

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SECTION 6: Accidental release measures

6.2 Environmental precautions

Environmental precautions Do not allow to enter into ground-water, surface water or drains. Do not allow contact with soil, surface or ground water. Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Small spill: Ventilate affected area. Remove all sources of ignition. Soak up inert absorbent and dispose as waste requiring special attention.
Large spill: Do not empty into drains. Take up mechanically. Collect in closed and suitable containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Do not breathe vapour/aerosol. Use product in a well-ventilated area only. When using do not eat, drink or smoke.
Precautions Avoid contact with eyes, skin and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight. Spilled product must never be returned to the original container for recycling. Keep container tightly closed.
Recommended storage temperature at room temperature (21 °C/70 °F)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

heptane [and isomers]

Germany					
Value / ppm	Value / mg/m ³	Ceiling Limit Value	Remarks	Issuing date	Source
500	2100	1(l)	*1)	01/06	TRGS 900

*1): Senate Commission on the Testing of Health Hazardous Materials of the German Research Community.

Europe

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Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Issuing date	Source
2 085	500	2000/39	DIRECTIVE 2009/161/EU

Norway		
Value / ppm	Value / mg/m3	Source
200	800	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Issuing date	Note	Source
200	800	300	1200	1989	V	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Issuing date	Source
300	1200	500	2100	Anlage 4	2006	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PI-TOISUUDET

Austria							
Area of validity	Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Duration	Frequency per shift	Source
MAK	500	2000	2000	8000	15(Miw)	4x	Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Critical toxicity	Remarks	Source
400	1600	400	1600	CNS, OAW{KTAN}	NIOSH	SUVA Switzerland 2017

Spain		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
500	2.085	Límites de exposición profesional para Agentes Químicos 2014

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Netherlands		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
1200	1600	Lijst met wettelijke grenswaarden 2011

Czech Republic			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Note	Source
1000	2000	I	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterym se stanoví podmínky oc...

Slovenia			
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Remarks	Source
2085	500	EU	77

Lithuania				
Short-term exposure value / mg/m3	Short-term exposure value / ppm	Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
800	200	1200	300	36

acetone; propan-2-one; propanone

Germany					
Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
500	1200	2(l)	Committee on Hazardous Substances. *1) European Union. *2)	02/15	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

*1): Senate Commission on the Testing of Health Hazardous Materials of the German Research Community.

*2): A risk of damage to the fruit need not be feared if the workplace limit value and the biological limit value (BGW) are observed.

Germany					
Germany	Parameter	Test material	Sampling time	Issuing date	Source
80 mg/l	Aceton	U	b	11/2012 DFG	TRGS 903

Europe			
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Issuing date	Source
1 210	500	2000/39	DIRECTIVE 2009/161/EU

Denmark			
Value / ppm	Value / mg/m3	Note	Source

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250	600	E	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...
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Norway		
Value / ppm	Value / mg/m3	Source
125	295	Veiledning om administrative normer for forurensning i arbejdsatmosfæ...

Sweden						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Issuing date	Note	Source
250	600	500	1200	1993	V	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Issuing date	Source
500	1200	630	1500	2002	HTTP-arvot 2012:5 HAITAL-LISIKSI TUNNETUT PITOISUUDET

Poland		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
600	1800	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 cz-erw...

Austria							
Area of validity	Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Duration	Frequency per shift	Source
MAK	500	1200	2000	4800	15(Miw)	4x	Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Notations	Critical toxicity	Source

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500	1200	1000	2400	B	CNS eye & AW	SUVA Switzerland 2017
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USA (ACGIH)				
Short term exposure limit	Long-term value	Basis	Remarks	Source
750 ppm	500 ppm	Irritation	Not classifiable as a Human Carcinogen	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Note	Source
500	1.210	VLB, VLI	Límites de exposición profesional para Agentes Químicos 2014

France							
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	TMP n°	FT n°	Issuing date	Source
500	1210	1000	2420	84	3	2007	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

Belgium				
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Source
246	594	492	1187	Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
1210	2420	Lijst met wettelijke grenswaarden 2011

Great Britain				
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Source
500	1210	1500	3620	EH40/2005 Workplace exposure limits (2011)

Czech Republic				
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Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Source
800	1500	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterym se stanoví podmínky oc...

Ireland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Remarks	Source
500	1210	IOELV	Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary				
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Note	Remarks	Source
1210	2420*	i	EU1	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source	
1210	500	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...	

Slovenia			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Remarks	Source
1210	500	BAT, EU	77

Malta			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source	
1210	500	National Occupational Exposure Limits Malta 2003	

Luxembourg			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source	
1.210	500	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...	

Lithuania				
Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
1210	500	2420	1000	36

Bulgaria		
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Source

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600	1400	81
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Latvia		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
1210	500	78

Romania		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
1210	500	79

	Parameter	Sampling time	Source
50 mg/l	Acetone in urine	End of shift	79

Greece		
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Source
1780	3560	80

N,N-dimethyl-p-toluidine

USA	
Long-term exposure value/ ppm	Source
0.5	83

8.2 Exposure controls

Respiratory protection	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Hand protection	Wear suitable gloves.
Suitable material	NBR (Nitrile rubber), PVA (Polyvinyl alcohol)
Eye protection	Wear solely goggles.
Skin and body protection	Wear suitable working clothes. Wash contaminated clothing before reuse.
General protective and hygiene measures	Ensure that direct skin contact is avoided. Do not breathe gas/vapour. Provide for sufficient ventilation, particularly in closed rooms. Wash hands thoroughly after handling.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
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Form	transparent
Colour	clear
Odour	weak odour
Boiling point [°C]	13 °C (56 °F)
Flash point [°C]	-18 °C
Measuring method	TAG CC
Relative density	0,7

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

Chemical stability The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Hazardous reactions Hazardous Polymerization will not occur.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid Oxygen, Oxidizing agent

10.6 Hazardous decomposition products

Hazardous decomposition products Gases/vapours, toxic: carbon monoxide, carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Subacute, subchronic, chronic toxicity Repeated exposure may cause skin dryness or cracking.

Irritant effect on skin Skin Sens.: Sensibilisierung der Haut

Irritant effect on eyes May be irritating

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SECTION 12: Ecological information

12.6 Other adverse effects

Ecotoxicology Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Dispose of waste according to applicable legislation.
Large spill: Do not allow contact with soil, surface or ground water.
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	UN1993	UN1993	UN1993
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	II	II	II
14.2 Description of the goods	FLAMMABLE LIQUIDS N.O.S.		
14.2 UN proper shipping name		FLAMMABLE LIQUIDS N.O.S.	FLAMMABLE LIQUIDS N.O.S.

SECTION 15: Regulatory information

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

VOC 574.000 g/L

Additional regulations Labelling according to Regulation (EC) No. 1272/2008 [CLP]

SECTION 16: Other information

Relevant H-phrases H225: Highly flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Wording of the hazard classes Flam. Liq.: Flammable liquid
Asp. Tox.: Aspiration hazard
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity – single exposure

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Aquatic Acute: Hazardous to the aquatic environment
Aquatic Chronic: Hazardous to the aquatic environment
Eye Irrit.: Serious eye irritation

Further information

The information is based on present level of our knowledge. It does not however, give assurances of product properties and establishes no contract legal rights.
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.

Modifications of the previous version are denoted with an asterisk (*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.