

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

Commercial Product Name : ZBase Blockout

Article-No. : 2150

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 Blockout

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

1.4 Emergency telephone number

Emergency telephone number 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. (CET).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Reg- Eye Irrit. 2A
ulation (EC) No. 1272/2008 Skin Irrit. 2
STOT SE 3
Skin Sens. 1
Flam. Liq. 4

2.2 Label elements

Hazard pictogram



GHS07

Signal word

Danger

H-statement(s)

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H227: Combustible liquid.

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P-statement(s)

P264: Wash Both hands thoroughly after handling.\$
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P370+P378: In case of fire: Use Dry extinguishing powder, Foam, Carbon dioxide (CO2) to extinguish.\$
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
ethyl 2-cyanoacrylate	CAS No. : 7085-85-0 EC-No. : 230-391-5 Index-No. : 607-236-00-9	Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	approx. 85.0 - 100.0 % by weight
Polymethylmethacrylat	CAS No. : 9011-14-7		approx. 10.0 - 30.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled Move victim to fresh air. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

In case of skin contact Wash with plenty of soap and water.

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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

Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

IF IN EYES: Causes serious eye irritation. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children. Causes tears.

IF ON SKIN: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children. Causes skin irritation. Danger of polymerisation.

IF SWALLOWED: Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

IF INHALED: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

SECTION 5: Firefighting measures

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. 4
Combustible liquid. vapour
The product polymerizes to solid by water.
Combustible by-products of carbon monoxide/dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighting

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Provide good ventilation. Avoid eye contact.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Small spill: Polymerize with water. Solid material may be scraped from surface.

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Large spill: Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Provide good ventilation. Vermeiden Sie den Kontakt mit Augen, Haut und Kleidung.

Precautions Do not breathe gas/vapour. Avoid contact with skin, eyes and clothes. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep only in the original container. Keep cool. Protect from sunlight. Keep away from sources of ignition.

Recommended storage temperature 5-10 °C (41-50 °F)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ethyl 2-cyanoacrylate

Denmark		
Value / ppm	Value / mg/m ³	Source
2	10	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Sweden						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Issuing date	Note	Source
2	10	4	20	2000	M, S, V	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Issuing date	Source
0,2	1	2005	HTTP-arvot 2012:5 HAITALISIKSI TUNNETUT PITOISUUDET

Poland			
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Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Source
1	2	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/m ³	Source
MAK	2	9	Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Critical toxicity	Source
2	9	OAW & Skin	SUVA Switzerland 2017

USA (ACGIH)			
Long-term value	Basis	Source	
0,2 ppm	Irritation, necrosis	ACGIH Threshold Limit Values for Chemical Substances 2008	

Spain		
Long-term exposure value/ ppm	Source	
0,2	Límites de exposición profesional para Agentes Químicos 2014	

Belgium		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Source
0,2	1,04	Liste de valeurs limites d'expositions professionnelle aux agents ...

Great Britain		
Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Source
0.3	1.5	EH40/2005 Workplace exposure limits (2011)

Czech Republic	
Note	Source
I	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...

Ireland	
Long-term exposure value/ ppm	Source
0.2	Code of Practice for the Safety Health and Welfare at Work (2011)

Estonia

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Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
10	2	20	4	Tööksekkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Lithuania				
Short-term exposure value / mg/m3	Short-term exposure value / ppm	Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
10	2	20	4	36

Polymethylmethacrylat

Bulgaria	
Long-term exposure value/ mg/m3	Source
20	81

8.2 Exposure controls

Hand protection	Wear suitable gloves.
Suitable material	NBR (Nitrile rubber)
Unsuitable material	PVC (Polyvinyl chloride),
Eye protection	Wear solely goggles.
General protective and hygiene measures	Do not breathe vapour/aerosol. Provide for sufficient ventilation, particularly in closed rooms. Wash hands thoroughly after handling.
Consumer exposure controls	Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.
Other information (chapter 8.)	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear
Odour	characteristic, Irritant
Odour threshold	1 ppm
Boiling point [°C]	> 149 °C (300 °F)
Flash point [°C]	80 °C (176 °F) – 93,4 °C (200 °F)

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Measuring method	TAG CC
Flammability (solid, gas)	485 °C (905 °F)
Vapour pressure [kPa]	< 0,2 mm Hg
Relative density	1,11 g/mL
Temperature	25 °C
Water solubility [g/l]	insoluble
Viscosity, dynamic [kg/(m*s)]	2 – 10 cP
Temperature	22 °C (72 °F)

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 No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Conditions to avoid Keep container tightly closed and at temperature not exceeding (°C): 80 °C (176 °F)
Possible polymerization reaction in the presence of water, amines, alkalis and alcohols.

10.5 Incompatible materials

Materials to avoid Possible polymerization reaction in the presence of water, amines, alkalis and alcohols.

10.6 Hazardous decomposition products

Hazardous decomposition products Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition. Oxides of nitrogen and probably hydrogen cyanide are also possible.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg]

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Hazardous ingredients

ethyl 2-cyanoacrylate			
Value	Test species	Exposure duration	Source
> 5000	Rat	LD50	Company data

Dermal toxicity [mg/kg]

Hazardous ingredients

ethyl 2-cyanoacrylate			
Value	Test species	Duration	Source
> 2000	Rabbit	LD50	Company data

Irritant effect on skin

Hazardous ingredients

ethyl 2-cyanoacrylate	
Value	Source
Irritant. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).	Company data

Irritant effect on eyes

Hazardous ingredients

ethyl 2-cyanoacrylate	
Value	Source
Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.	Company data

Irritant effect on the respiratory tract

Hazardous ingredients

ethyl 2-cyanoacrylate	
Value	Source
Gases/vapours, irritant	Company data

SECTION 12: Ecological information

12.6 Other adverse effects

Further information on ecology No ecotoxic effects are known for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Dispose of waste according to applicable legislation.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.3 Transport hazard class(es)	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	9
14.1 UN-No			UN3334
14.2 UN proper shipping name			Limited quantity (LQ) Aviation regulated liquid, n.o.s.
Limited quantity			LQ < 500 ml

SECTION 15: Regulatory information

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

VOC < 20.000 g/L

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

SECTION 16: Other information

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

Relevant H-phrases
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Wording of the hazard classes
Eye Irrit.: Serious eye irritation
STOT SE: Specific target organ toxicity – single exposure
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitization
Flam. Liq.: Flammable liquid

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.