

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

Commercial Product Name : SureFit Thinner



Revision Date : 23.08.2019

Version : 1.2 /en

Replaces version from : 23.08.2019

Print date : 23.08.2019

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

1.1 Product identifier

Commercial Product Name SureFit Thinner

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 HPdent GmbH | Erwin-Dietrich-Strasse 5 | 78244 Gottmadingen |
+49 7731 38 11 044 | +49 7731 31 97 123 | kontakt@hp-dent.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. 2, Category 2
ulation (EC) No. 1272/2008 Narcotic effects, Category 3
Flam. Liq. 2, Category 2

2.2 Label elements

Hazard pictogram



GHS02



GHS07

H-statement(s)

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

P-statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and
other ignition sources. No smoking.

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P241: Use explosion-proof (electrical/ventilating/lighting/) equipment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P233: Keep container tightly closed.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash Both hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P312: Call a POISON CENTER/doctor/ if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
butanone; ethyl methyl ketone	CAS No. : 78-93-3 EC-No. : 201-159-0 Index-No. : 606-002-00-3	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	approx. 70.0 – 100.0 % by weight
2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate (average MW 135 000 g/mol)	CAS No. : 25086-15-1	This product is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].	approx. 10.0 – 25.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Get medical advice/attention if you feel unwell.

Never give anything by mouth to an unconscious person or a person with cramps.

If inhaled

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

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In case of skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
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	IF SWALLOWED: Do NOT induce vomiting. Give nothing to eat or drink. Call a physician immediately.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray jet, Dry extinguishing powder, alcohol resistant 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 carbon monoxide
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep cool.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting// equipment.
Use only spark proof tools.
Take precautionary measures against static discharges.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not get in eyes, on skin, or on clothing.

5.3 Advice for firefighters

Additional information on firefighting Wear a self-contained breathing apparatus and chemical protective clothing. Cool closed containers that are near the source of the fire.
For small bottle: Smother with water, wet blanket or towel.
Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. In use, may form flammable/explosive vapour-air mixture.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear personal protection equipment (refer to section 8).

6.2 Environmental precautions

Environmental precautions Do not allow to enter into surface water or drains.
Wash hands before eating, drinking or smoking.
Wash contaminated clothing prior to re-use.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Clear spills immediately. Remove all sources of ignition. Remove persons to safety. Ventilate affected area. Special danger of slipping by leaking/spilling product. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Do not breathe vapour/aerosol.

Dispose of waste according to applicable legislation.

Remove all sources of ignition.

Wipe up with absorbent material (eg. cloth, fleece).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide for sufficient ventilation, particularly in closed rooms.

Avoid contact with eyes and skin.

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.

Keep cool. Protect from sunlight. Remove all sources of ignition.

Store at temperatures not exceeding 38 °C/100 °F.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Handle containers carefully to prevent damage and spillage.

Hints on storage assembly

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

Storage specifications

Limit storage of flammable material to approved areas. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Avoid storing near acids, chlorinated solvents. Storage temp: 60° C/140° F min. Containers may be hazardous when empty. Emptied containers contain residue.

7.3 Specific end use(s)

Specific use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

butanone; ethyl methyl ketone

Germany

Value / ppm	Value / mg/m ³	Ceiling Limit Value	Remarks	Issuing date	Source
200	600	1(l)	*1)	01/06	TRGS 900

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*1): Senate Commission on the Testing of Health Hazardous Materials of the German Research Community. European Union. \$PHR:socal;

*2): AGW_DE_H:RHP\$ 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
2 mg/l	2-Butanon	U	b	05/2015 DFG	TRGS 903

Europe					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Issuing date	Source
600	200	900	300	2000/39	DIRECTIVE 2009/161/EU

Denmark			
Value / ppm	Value / mg/m3	Note	Source
50	145	EH	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / ppm	Value / mg/m3	Source
75	220	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	Source
50	150	300	900	2015	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland				
Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Issuing date	Source
100	300	Skin	2005	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET

Poland		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/ m3	Source
450	900	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerw...

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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	Skin re-sorption / sensibilisation	Source
MAK	100	295	200	590	30(Miw)	4x	H	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	
200	590	200	590	H B SSC	NS OAW	SUVA Switzerland 2017	

USA (ACGIH)			
Short term exposure limit	Long-term value	Basis	Source
300 ppm	200 ppm	Irritation, CNS	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain					
Long-term exposure value/ ppm	Long-term exposure value/ mg/ m3	Short-term exposure value / ppm	Short-term exposure value / mg/ m3	Note	Source
200	600	300	900	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	Remarks	TMP n°	FT n°	Issuing date	Source
200	600	300	900	Risk of penetration into the skin.	84	14	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
200	600	300	900	Liste de valeurs limites d'expositions

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				professionnelle aux agents ...
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Netherlands			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Skin resorption / sensibilisation	Source
590	900	H	Lijst met wettelijke grenswaarden 2011

Great Britain					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Remarks	Source
200	600	300	899	Can be absorbed through the skin.	EH40/2005 Workplace exposure limits (2011)

Czech Republic			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Note	Source
600	900	I	NARIŽENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...

Ireland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Remarks	Source
200	600	300	900	Sk, 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
600	900	b, i	II.1. 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	Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Source
600	200	900	300	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia				
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Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Ceiling Limit Value	Remarks	Source
600	200	1,5	BAT, EU	77

Malta				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
600	200	900	300	National Occupational Exposure Limits Malta 2003

Luxembourg				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
600	200	900	300	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...

Lithuania				
Short-term exposure value / mg/m3	Short-term exposure value / ppm	Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
600	200	900	300	36

Bulgaria			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source	
590	885	81	

Latvia				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
600	200	900	300	78

Romania				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
600	200	900	300	79

Parameter	Sampling time	Source
2 mg/l	Methyl ethyl ketone in urine End of shift	79

Greece				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
600	200	900	300	80

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8.2 Exposure controls

Respiratory protection	If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.
Hand protection	Wear protective gloves.
Eye protection	Wear eye glasses with side protection according to EN 166.
General protective and hygiene measures	Provide for sufficient ventilation, particularly in closed rooms. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. In case of inadequate ventilation wear respiratory protection.
Engineering measures	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.
Other information (chapter 8.)	Wash hands before eating, drinking or smoking. Wash contaminated clothing prior to re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear, colourless
Odour	Acetate
Boiling point [°C]	79 °C/175 °F
Flash point [°C]	-4 °C/25 °F (SFCC)
Evaporation rate [kg/(s*m ²)]	6,0 (n-Butyl Acetate = 1)
Explosion limits [Vol-%]	
Lower limit	2,6
Upper limit	12,8
Vapour pressure [kPa]	24 °C/75 °F at 83 mmHg
Water solubility [g/l]	slightly soluble

9.2 Other information

Other data	No further relevant information available.
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SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity Hazardous Polymerization will not occur.

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 away from sources of ignition. When not in use, keep containers tightly closed.

10.5 Incompatible materials

Materials to avoid Avoid contact with water, mineral acids, chlorinated solvents.

10.6 Hazardous decomposition products

Hazardous decomposition products hydrogen
CuO
ZnO

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Irritant effect on skin Causes mild skin irritation.

Irritant effect on eyes May be irritating

SECTION 12: Ecological information

12.4 Mobility in soil

Distribution in the environment Do not allow to enter ground-water, surface water or drains, even not in small quantities.

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
Proper shipping name	UN1993, Flammable liquids, n. o. s., (Methyl Ethyl Ketone), 3, II		
14.1 UN-No	UN1993	UN1993, Flammable liquids, n. o. s., (Methyl Ethyl Ketone)	UN1993
14.3 Transport hazard class(es)	3	IMDG-CODE-Class 3	3
14.4 Packaging group	II	II	II
Inducer/cause of environmental hazard	0: Non-marine pollutant		
14.2 UN proper shipping name			Flammable liquids, n. o. s., (Methyl Ethyl Ketone),

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

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

VOC 731 g/L

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

15.2 Chemical safety assessment

Safety assessment For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

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

Relevant H-phrases
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Wording of the hazard classes
Flam. Liq.: Flammable liquid
Eye Irrit.: Serious eye irritation
STOT SE: Specific target organ toxicity – single exposure
This product is classified as not hazardous according to regulation EC CLP

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

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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.