

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Version : 1.1 /en

Replaces version from : 22.08.2019

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 Gold/Silver

### 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 Regulation (EC) No. 1272/2008 Flam. Liq. 2; H225  
Skin Irrit. 3  
Eye Irrit. 2; H319  
Repr. 2; H361d  
STOT SE 3; H H336  
Aquatic Acute 1; H400  
Aquatic Chronic 2; H411

### 2.2 Label elements

Hazard pictogram



GHS02



GHS07



GHS08



GHS09

H-statement(s)

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

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Commercial Product Name : SureFit Gold/Silver



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## P-statement(s)

H361d: Suspected of damaging the unborn child.  
H400: Very toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P235: Keep cool.  
P240: Ground and bond container and receiving equipment.  
P241: Explosionsgeschützte (elektrische/Lüftungs-/Beleuchtungs-/) Geräte verwenden.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Nach Gebrauch gründlich waschen.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).  
P304+P312: In the event of inhalation: If you feel unwell, call the POISON INFORMATION CENTRE or 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.  
P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor/ .  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P340: Remove person to fresh air and keep comfortable for breathing.  
P370+P378: Bei Brand: zum Löschen verwenden – see chapter 5  
P391: Collect spillage.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/container to Dispose of waste according to applicable legislation..

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## 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. 50.0 – 75.0 % by weight
Copper	CAS No. : 7440-50-8 EC-No. : 231-159-6		approx. 10.0 – 25.0 % by weight
Aluminium und seine Oxide	CAS No. : 7429-90-5 EC-No. : 231-072-3 Index-No. : 013-002-00-1	Pyr. Sol. 1; H250 Water-react. 2; H261	approx. 10.0 – 25.0 % by weight
zinc powder – zinc dust (stabilised)	CAS No. : 7440-66-6 EC-No. : 231-175-3 Index-No. : 030-001-01-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	approx. 1.0 – 10.0 % by weight
toluene	CAS No. : 108-88-3 EC-No. : 203-625-9 Index-No. : 601-021-00-3	Flam. Liq. 2; H225 Repr. 2; H361d Asp. Tox. 1; H304 STOT RE 2 ; H373 Skin Irrit. 2; H315 STOT SE 3; H336	approx. 1.0 % 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.
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: Immediately call a doctor. Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Inhalation/Ingestion: Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, and lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness) Skin/Eyes: Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.
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IF IN EYES: May cause tearing, stinging, redness, irritation, and burns.  
IF INHALED: Irritating to respiratory tract. Prolonged or repeated breathing of very high vapor concentrations cause euphoria, excitation, and dizziness, headaches, nausea, and vomiting, abdominal pain, fatigue, muscular weakness. Aspiration into the lungs can cause CNS (central nervous system) and subsequent aspiration into the lungs can cause pulmonary edema and chemical pneumonia depression. Chronic overexposure in high concentrations may produce CNS depression  
Prolonged or repeated skin contact may cause moderate to severe irritation including itching and redness of the skin, defatting, and/or dermatitis. This product can also be absorbed through the skin and produce CNS symptoms. Single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media      Water spray jet, Dry extinguishing powder, alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>)

Extinguishing media which must not be used for safety reasons      Full water jet

### **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      Hydrogen gas, CuO, ZnO  
Von Hitze, heißen Oberflächen, Funken, offenen Flammen sowie anderen Zündquellenarten fernhalten. Nicht rauchen.  
Keep cool.  
Ground/bond container and receiving equipment.  
Explosionssgeschützte elektrische Geräte/Lüftungsanlagen/Beleuchtungsanlagen/ verwenden.  
Funkensicheres Werkzeug verwenden.  
Take precautionary measures against static discharges.  
Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.

### **5.3 Advice for firefighters**

Additional information on fire-fighting      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.  
Never use water. In case of fire, use dry sand. Do not use halogenated hydrocarbon extinguishing agents.

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Commercial Product Name : SureFit Gold/Silver



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Version : 1.1 /en

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## **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.

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up                  Verschüttete Mengen aufnehmen. 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). Dampf/Aerosol nicht einatmen.  
Dispose of waste according to applicable legislation.  
Do not allow to enter into surface water or drains.  
For discard, this is classified as a hazardous waste with the character-  
istic of ignitability and toxicity.  
For small quantity spills, allow solvent in paper towel to evaporate in  
well ventilated areas or outdoors (preferred).

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling                  Ground all containers when transferring material. Periodically clean  
neck of bottle of resinous build up (clean inside of cap) to maintain  
proper seal. Do not smoke when using. Add thinner as needed, to  
keep proper thinness of material:

### **7.2 Conditions for safe storage, including any incompatibilities**

Storage space and container re-      Handle containers carefully to prevent damage and spillage.  
quirements  
Hints on storage assembly              Avoid: Water, acids, alkalis, chlorinated solvents  
Storage specifications                  Limit storage of flammable material to approved areas. Store bottles  
away from heat. Keep away from open flame of bunsen burner or fur-  
nace. Keep containers tightly sealed. Avoid storing near acids, chlo-  
rinated solvents. Storagetemp: 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

butanone; ethyl methyl ketone

Germany					
Value / ppm	Value / mg/m <sup>3</sup>	Ceiling Limit Value	Remarks	Issuing date	Source
200	600	1(l)	*1) *2)	01/06	TRGS 900

\*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/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Issuing date	Source
600	200	900	300	2000/39	DIRECTIVE 2009/161/EU

Denmark				
Value / ppm	Value / mg/m <sup>3</sup>	Note	Source	
50	145	EH	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...	

Norway			
Value / ppm	Value / mg/m <sup>3</sup>	Source	
75	220	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...	

Sweden					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	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/m <sup>3</sup>	Remarks	Issuing date	Source
100	300	Skin	2005	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET

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Poland		
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Source
450	900	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 <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	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/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	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/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	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/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	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

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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 professionnelle aux agents ...

Netherlands			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Skin resorption / sensibilisation	Source
590	900	H	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	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/m3	Short-term exposure value / mg/m3	Note	Source
600	900	I	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterym se stanoví podmínky oc...

Ireland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	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/m3	Short-term exposure value / mg/m3	Note	Remarks	Source
600	900	b, i	II.1. EU1	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia				
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Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Source
600	200	900	300	Töökeskonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia				
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Ceiling Limit Value	Remarks	Source
600	200	1,5	BAT, EU	77

Malta				
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Source
600	200	900	300	National Occupational Exposure Limits Malta 2003

Luxembourg				
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	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/m <sup>3</sup>	Short-term exposure value / ppm	Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Source
600	200	900	300	36

Bulgaria			
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Source	
590	885	81	

Latvia				
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Source
600	200	900	300	78

Romania				
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	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

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

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

Copper		
Denmark		
Value / mg/m3	Remarks	Source
1	Powder and dust	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...
0,1	fume Calculated as Cu	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m3	Note	Source
1	dust	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m3	Issuing date	Note	Remarks	Source
0,01	2018	Respirable fraction	*1)	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

\*1): With dusts the dust content means that in the Swedish standard EN 481, workplace atmosphere is defined? Size fraction definition for the measurement of suspended particles, edition 1, 1993, paragraph 2.3 and has a sampling characteristic according to paragraph 5. 1.

Finland			
Long-term exposure value/ mg/m3	Remarks	Issuing date	Source
0,02	Cu, Alveolar fraction	2015	HTTP-arvot 2012:5 HAITALISIKSI TUNNETUT PITOISU- UDET

Austria						
Area of validity	Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Duration	Frequency per shift	Remarks	Source
MAK	0,1 A	0,4 A	15(Miw)	4x	als Cu berechnet (als Rauch)	Stoffliste (MAK-Werte und TRK-Werte 2012)
MAK	1 E	4 E	15(Miw)	4x	als Cu berechnet	Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Remarks	Source

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Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

0,1 e	0,2e	NIOSH	SUVA Switzerland 2017
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USA (ACGIH)			
Long-term value	Basis	Remarks	Source
0,2 mg/m <sup>3</sup>	Irritation, gastrointestinal, metal fume fever	fume	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Note	Source
0,1	Respirable fraction	d see Capítulo 9	Límites de exposición profesional para Agentes Químicos 2014

France						
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Note	FT n°	Issuing date	Source
0,2		fume			1987	Valeurs limites d'exposition professionnelle aux agents chimiques en ...
1	2		dustas Cu	294	1984	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
0,2	fume as Cu	Liste de valeurs limites d'expositions professionnelle aux agents ...
1	dusts and mists as Cu	Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands		
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
0,1	(inhaleerbaar)	Lijst met wettelijke grenswaarden 2011

Great Britain		
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
0.2	fume as Cu	EH40/2005 Workplace exposure limits (2011)

Czech Republic			
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Note	Source

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

Commercial Product Name : SureFit Gold/Silver



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1	2	\$PHRASE:mkm7000;TSU_c-s_304:PHRASE\$	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...
0,1	0,2	\$PHRASE:mkm7000;TSU_c-s_293:PHRASE\$	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...

Ireland			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Note	Source
0.2		Fume as Cu	Code of Practice for the Safety Health and Welfare at Work (2011)
1	2	Dusts and mists as Cu	Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Remarks	Source
0,1	0,4	II.1.	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia		
Long-term exposure value/ mg/m3	Remarks	Source
1	total dust; As Cu	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...
0,2	respirable dust; As Cu	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia		
Long-term exposure value/ mg/m3	Ceiling Limit Value	Source
0,1 (A)	4	77

Lithuania		
Short-term exposure value / mg/m3	Remarks	Source
1	kaip Cu: ūkvepiamoji frakcija	36
0,2	kaip Cu: alveolinū frakcija	36

Bulgaria		
Long-term exposure value/ mg/m3	Note	Source
0,1	метални пари as Cu	81

Latvia		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
0,5	1	78

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

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Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
	0,2	fume	79
0,5	1,5	powder	79

Greece			
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Note	Source
0,2		καπνός	80
1	2	σκόνη	80

## Aluminium und seine Oxide

Denmark		
Value / mg/m <sup>3</sup>	Remarks	Source
1	Calculated as Al	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m <sup>3</sup>	Note	Source
2	(Calculated as Al)	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m <sup>3</sup>	Issuing date	Note	Remarks	Source
5	1996	total dust	*1)	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18
2	1996	Respirable fraction	*1)	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

\*1): With dusts the dust content means that in the Swedish standard EN 481, workplace atmosphere is defined? Size fraction definition for the measurement of suspended particles, edition 1, 1993, paragraph 2.3 and has a sampling characteristic according to paragraph 5. 1.

USA (ACGIH)			
Long-term value	Basis	Remarks	Source
2 mg/m <sup>3</sup>	Irritation	(as Al)	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Note	Source
2	as Al	c	Límites de exposición profesional para Agentes Químicos 2014

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

Long-term exposure value/ mg/m <sup>3</sup>	FT n°	Issuing date	Source
2	306	1985	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
1	as Al Alveolar fraction	Liste de valeurs limites d'expositions professionnelle aux agents ...

Great Britain	
Long-term exposure value/ mg/m <sup>3</sup>	Source
2	EH40/2005 Workplace exposure limits (2011)

Ireland	
Long-term exposure value/ mg/m <sup>3</sup>	Source
2	Code of Practice for the Safety Health and Welfare at Work (2011)

Lithuania		
Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
5	kaip Al: ūkvepiamoji frakcija	36
2	kaip Al: alveolinū frakcija	36

Bulgaria			
Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Note	Source
10	(метален прах и оксиди)		81
1,5	(метален прах и оксиди)	Respirable fraction	81

Romania			
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
3	10	powder	79
1	3	fume	79

Greece		
Long-term exposure value/ mg/m <sup>3</sup>	Note	Source
10	ΕΙΣΤΠΥ.	80
5	ΑΥΑΠΤΥ.	80

Germany					
Value / ppm	Value / mg/m <sup>3</sup>	Ceiling Limit Value	Remarks	Issuing date	Source
50	190	4(II)	*1) *2)	01/06	TRGS 900

\*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.

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

Germany					
Germany	Parameter	Test material	Sampling time	Issuing date	Source
600 µg/l	Toluol	B	g	11/2017 DFG	TRGS 903
75 µg/l	Toluol	U	b	11/2018 DFG	TRGS 903
1,5 mg/l	o-Kresol (nach Hydrolyse)	U	b, c	11/2018 DFG	TRGS 903

Europe						
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Note	Issuing date	Source
192	50	384	100	Skin	2006/15	DIRECTIVE 2009/161/EU

Denmark				
Value / ppm	Value / mg/m <sup>3</sup>	Note	Source	
25	94	EH	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...	

Norway				
Value / ppm	Value / mg/m <sup>3</sup>	Note	Source	
25	94	H	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...	

Sweden						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Issuing date	Note	Source
50	192	100	384	2015	B, H	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Issuing date	Source
25	81	100	380	Skin, Lärm	2009	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PI-TOISUUDET

Poland		
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Source

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

100	200	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 cz- erw...
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Austria									
Area of validity	Potential reproductive toxin	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 / sensitisation	Source
MAK	d	50	190	100	380	15(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	
50	190	200	760	H OL B R2F R2D SSC	See CNS	SUVA Switzerland 2017	

USA (ACGIH)			
Long-term value	Basis	Remarks	Source
20 ppm	Visual impair, female repro, pregnancy loss	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	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Note	Source	
50	192	100	384	Transcutaneous, VLB, VLI, r	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
20	76,8	100	384	R2 Risk of penetration into the skin. Ces VLEP entrent en vigueur le 1er juillet 2012.	4bis, 84	74	2012	Valeurs limites d'exposition professionnelle aux agents chimiques en ...



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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

Belgium					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Note	Source
20	77	100	384	D	Liste de valeurs limites d'expositions professionnelles aux agents ...

Netherlands		
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Source
150	384	Lijst met wettelijke grenswaarden 2011

Great Britain					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
50	191	100	384	Can be absorbed through the skin.	EH40/2005 Workplace exposure limits (2011)

Czech Republic				
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Note	Source	
200	500	D, I	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...	

Ireland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
50	192	100	384	Sk, IOELV	Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary					
Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Note	Remarks	Source	
190	760	b, i	II.2. BEM EU2	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...	

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Remarks	Source
192	50	384	100	A	Töökeskonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

## Slovenia

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Ceiling Limit Value	Remarks	Source
192	50	2	K, BAT, EU	77

## Luxembourg

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Note	Source
192	50	384	100	Skin	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...

## Lithuania

Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Note	Source
192	50	384	100	R O	36

## Bulgaria

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Remarks	Source
192	50	384	50	Skin	81

## Latvia

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Remarks	Source
50	14	150	40	Skin Auswirkung gen auf das Hören	78

## Romania

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Remarks	Source
192	50	384	100	P	79

	Parameter	Sampling time	Source
2 g/l	Hippuric acid in urine	End of shift	79
3 mg/l	o-Cresol in urine	End of shift	79

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Version : 1.1 /en

Replaces version from : 22.08.2019

Print date : 23.08.2019

Greece				
Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Source
375	100	560	150	80

## 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 suitable protective clothing and gloves.
Eye protection	Wear chemical resistant protective eye glasses.
General protective and hygiene measures	Usual hygienic measures of dental practice and dental laboratories. Wash hands before eating, drinking or smoking. Take off immediately all contaminated clothing and wash it before reuse.
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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Appearance	Gold or silver or white (Thinner)
Odour	sweet/sharp
Odour threshold	not determined
pH (min)	not determined
Melting point [°C] / Freezing point [°C]	-86 °C/-123 °F
Boiling point [°C]	80 °C/176 °F
Flash point [°C]	-4 °C/25 °F (SFCC)
Evaporation rate [kg/(s*m <sup>2</sup> )]	>1 (Butyl Acetate = 1)
Flammability (solid, gas)	Not applicable
Explosion limits [Vol-%]	
Lower limit	1,8 est.
Upper limit	11,5 est.
Vapour pressure [kPa]	20 °C/68 °F at 70 mmHg

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Version : 1.1 /en

Replaces version from : 22.08.2019

Print date : 23.08.2019

Vapour density	>1
Density [g/cm <sup>3</sup> ]	approx. 1
Water solubility [g/l]	slightly soluble
Partition coefficient n-octanol / water (log P O/W)	not determined
Autoignition temperature [°C]	516 °C/ 961 °F
Decomposition temperature [°C]	not determined
Viscosity, kinematic [mm <sup>2</sup> /s]	400 cPs mac

## 9.2 Other information

Other data No further relevant information available.

## 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.  
Water, acids, alkalis, chlorinated solvents

### 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

Oral toxicity [mg/kg]  
Hazardous ingredients

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

butanone; ethyl methyl ketone				
Value	Test species	Exposure duration	Remarks	Source
2737	Rat	LD50	Acute toxicity Category 5	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper				
Value	Test species	Exposure duration	Remarks	Source
2500	Rat	LD50	Acute toxicity Category 5	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

zinc powder – zinc dust (stabilised)	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene				
Value	Test species	Exposure duration	Remarks	Source
636	Rat	LD50	Acute Toxicity, Category 4	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

## Dermal toxicity [mg/kg]

### Hazardous ingredients

butanone; ethyl methyl ketone				
Value	Test species	Duration	Remarks	Source
6480	Rabbit	LD50	Not applicable	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper				
Value	Test species	Duration	Remarks	Source
>2000	Rat	LD50	Acute toxicity Category 5	Verordnung (EG) Nr. 1272/2008 des Europäis-

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

				chen Parlaments und des Rat...
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Aluminium und seine Oxide	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

zinc powder – zinc dust (stabilised)	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene				
Value	Test species	Duration	Remarks	Source
8400	Rabbit	LD50	Category not applicable	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

## LC50 Inhalation 4h for gases [ppmV]

### Hazardous ingredients

butanone; ethyl methyl ketone	
Value	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

zinc powder – zinc dust (stabilised)	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

## LC50 Inhalation 4h for vapours [mg/l]

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

## Hazardous ingredients

butanone; ethyl methyl ketone				
Value	Duration of dosage	Test species	Note	Source
32	LC50	Mouse	not applicable	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

zinc powder – zinc dust (stabilised)	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

## LC50 Inhalation 4h for dusts and sprays [mg/l]

### Hazardous ingredients

butanone; ethyl methyl ketone	
Value	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper				
Value	Duration of dosage	Test species	Note	Source
5,11	LC50	Rat	Category not applicable	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

zinc powder – zinc dust (stabilised)	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Irritant effect on skin                      slightly irritant Skin Irrit. 3  
Irritant effect on eyes                      strongly irritant. Eye Irrit. 2  
Specific target organ toxicity  
(single exposure) [mg/kg]                May cause drowsiness or dizziness. STOT SE 3

## 11.2 Additional information

Other information (chapter 11.)        Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish [mg/l]

Hazardous ingredients

butanone; ethyl methyl ketone			
Value	Test species	Exposure duration	Source
400	Cyprinodon variegatus	96 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper				
Value	Test species	Measuring method	Exposure duration	Source
0,0103	Pimephales promelas (fat-head minnow)	LC50	96 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...



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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

zinc powder – zinc dust (stabilised)				
Value	Test species	Measuring method	Exposure duration	Source
0,182	Oncorhynchus mykiss (Rainbow trout)	LC50	96 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene				
Value	Test species	Measuring method	Exposure duration	Source
5,80	Oncorhynchus mykiss (Rainbow trout)	LC50	96 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

## Toxicity to daphnia [mg/l] Hazardous ingredients

butanone; ethyl methyl ketone				
Value	Test species	Exposure duration	Source	
520	Daphnia magna (Big water flea)	48 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...	

Copper				
Value	Test species	Exposure duration	Measuring method	Source
0,0025	Daphnia magna (Big water flea)	48 h	EC50	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

zinc powder – zinc dust (stabilised)				
Value	Test species	Exposure duration	Measuring method	Source
0,068	Daphnia magna (Big water flea)	48 h	EC50	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene				
Value	Test species	Exposure duration	Measuring method	Source

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Replaces version from : 22.08.2019

Version : 1.1 /en

Print date : 23.08.2019

19,60	Daphnia magna (Big water flea)	48 h	EC50	Verordnung (EG) Nr. 1272/2008 des Europäis- chen Parlaments und des Rat...
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## Toxicity to algae [mg/l]

### Hazardous ingredients

butanone; ethyl methyl ketone			
Value	Test species	Exposure duration	Source
500	Skeletonema costatum	96 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Copper				
Value	Test species	Exposure duration	Measuring method	Source
0,018	Pseudokirchneriella subcapitata	72 h	ErC50:	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Aluminium und seine Oxide	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

zinc powder – zinc dust (stabilised)				
Value	Test species	Exposure duration	Measuring method	Source
0,106	Pseudokirchneriella subcapitata	72 h	ErC50:	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

toluene	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

## 12.2 Persistence and degradability

Elimination and distribution mechanisms      Es gibt keine Daten über die Zubereitung selbst.

Elimination in purification plant      No data available

Biodegradability      No data available

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Version : 1.1 /en

Replaces version from : 22.08.2019

Print date : 23.08.2019

## 12.3 Bioaccumulative potential

Bioaccumulation No data available

Bioconcentration factor (BCF) No data available

## 12.4 Mobility in soil

Distribution in the environment No data available

## 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics This substance does not meet the PBT/vPvB criteria of REACH, Annex determination XIII.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

	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

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

Water hazard class (self-classification) slightly hazardous to water (WGK 1)

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

Commercial Product Name : SureFit Gold/Silver



Revision Date : 23.08.2019

Version : 1.1 /en

Replaces version from : 22.08.2019

Print date : 23.08.2019

## 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.  
H250: Catches fire spontaneously if exposed to air.  
H261: In contact with water releases flammable gases.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.  
H373: May cause damage to organs through prolonged or repeated exposure .  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes  
Flam. Liq.: Flammable liquid  
Eye Irrit.: Serious eye irritation  
STOT SE: Specific target organ toxicity – single exposure  
Aquatic Acute: Hazardous to the aquatic environment  
Aquatic Chronic: Hazardous to the aquatic environment  
Repr.: Reproductive toxicity  
STOT RE: Specific target organ toxicity – repeated exposure  
Skin Irrit.: Skin irritation

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.