

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

Commercial Product Name : SureFit



Revision Date : 23.08.2019

Version : 1.4 /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

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
STOT SE 3; H336

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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P235: Keep cool.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof (electrical/ventilating/lighting/) equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P262: Do not get in eyes, on skin, or on clothing.
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.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor / .
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331: Do NOT induce vomiting.
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: In case of fire: Use see chapter 5 to extinguish.
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..

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 – 74.0 % by weight
Titanium dioxide	CAS No. : 13463-67-7 EC-No. : 236-675-5		approx. 10.0 – 25.0 % by weight
1,2,4-trimethylbenzene	CAS No. : 95-63-6 EC-No. : 202-436-9 Index-No. : 601-043-00-3	Flam. Liq. 3; H226 Acute Tox. 4 ; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	approx. 1.0 – 10.0 % by weight
Solvent naphtha (petroleum), light arom., not classified as carcinogenic	CAS No. : 64742-95-6 EC-No. : 265-199-0	Acute Tox. 1; H304	approx. 1.0 – 10.0 % by weight

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Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
(H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)			
2-[[1-[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	CAS No. : 31837-42-0 EC-No. : 250-830-4		approx. 1.0 – 10.0 % by weight
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	CAS No. : 147-14-8 EC-No. : 205-685-1		approx. 1.0 – 10.0 % by weight
Trimethyl benzene	CAS No. : 25551-13-7 EC-No. : 247-099-9	Flam. Liq. 2;H225, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315	approx. 1.0 – 10.0 % by weight
Iron oxide	CAS No. : 1309-37-1 EC-No. : 215-168-2		approx. 1.0 – 10.0 % by weight
2-methoxy-1-methylethyl acetate	CAS No. : 108-65-6 EC-No. : 203-603-9 Index-No. : 607-195-00-7	Flam. Liq. 3; H226	approx. 1.0 – 10.0 % by weight
C.I. Pigment Reg 170	CAS No. : 2786-76-7		approx. 1.0 – 10.0 % 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

Consult physician.. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. Induce vomiting when the affected person is not unconscious.

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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.

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

IF ON SKIN: 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.

Adverse human health effects and symptoms: Eye irritation, respiratory irritation, drying and cracking of skin, dizziness, fatigue, headache, unconsciousness or asphyxiation. Chronic effects of ingestion and subsequent aspiration into the lungs can cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Repeated breathing of vapors can cause effects to liver and kidneys. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

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.

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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 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.

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 Collect spillage. 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.

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

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 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/m3	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/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

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

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

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	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 ³	Remarks	Issuing date	Source
100	300	Skin	2005	HTTP-ärvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET

Poland			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³		Source
450	900		ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerwca...

Austria								
Area of validity	Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Duration	Frequency per shift	Skin re-sorption / sensitisation	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 ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Notations	Critical toxicity	Source
200	590	200	590	H B SSC	NS OAW	SUVA Switzerland 2017

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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 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)

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Czech Republic			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Note	Source
600	900	l	NARÍZENÍ 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				
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Ceiling Limit Value	Remarks	Source
600	200	1,5	BAT, EU	77

Malta				
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	National Occupational Exposure Limits Malta 2003

Luxembourg				
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	Règlement grand-ducal du 31 octobre

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				2008 modifiant le règlement grand...
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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

Titanium dioxide			
Denmark			
Value / mg/m3	Remarks	Source	
6	Calculated as Ti	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...	

Norway	
Value / mg/m3	Source
5	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m3	Issuing date	Note	Remarks	Source
5	1990	total dust	*1)	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

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*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.

Austria					
Area of validity	Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Duration	Frequency per shift	Source
MAK	5	10	60(Miw)	2x	Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland				
Long-term exposure value/ mg/m ³	Notations	Critical toxicity	Remarks	Source
3 a	SSC	UAW	(see 1.8.2)	SUVA Switzerland 2017

USA (ACGIH)			
Long-term value	Basis	Remarks	Source
10 mg/m ³	Lung	Not classifiable as a Human Carcinogen	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain	
Long-term exposure value/ mg/m ³	Source
10	Límites de exposición profesional para Agentes Químicos 2014

France				
Long-term exposure value/ mg/m ³	Note	FT n°	Issuing date	Source
10	as Ti	291	1987	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

Belgium	
Long-term exposure value/ mg/m ³	Source
10	Liste de valeurs limites d'expositions professionnelle aux agents ...

Great Britain		
Long-term exposure value/ mg/m ³	Remarks	Source
10	inhalable (total)	EH40/2005 Workplace exposure limits (2011)
4	respirable	EH40/2005 Workplace exposure limits (2011)

Ireland		
Long-term exposure value/ mg/m ³	Note	Source

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10	total inhalable dust	Code of Practice for the Safety Health and Welfare at Work (2011)
4	respirable dust	Code of Practice for the Safety Health and Welfare at Work (2011)

Estonia	
Long-term exposure value/ mg/m3	Source
5	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia	
Note	Source
Y	UMCO

Lithuania	
Short-term exposure value / mg/m3	Source
5	36

Bulgaria		
Long-term exposure value/ mg/m3	Note	Source
10	респирабилен прах	81

Greece		
Long-term exposure value/ mg/m3	Note	Source
10	ΕΙΟΤΠV.	80
5	ΑVΑΑΤΠV.	80

1,2,4-trimethylbenzene

Germany					
Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
20	100	2(II)	*1) AGW_DE_Y:RHP\$	01/06	TRGS 900

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

Europe			
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Issuing date	Source
100	20	2000/39	DIRECTIVE 2009/161/EU

Denmark			
Value / ppm	Value / mg/m3	Note	Source
20	100	E	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

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

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20	100	35	170	2018	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18
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Finland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Issuing date	Source
20	100	1998	HTTP-arvot 2012:5 HAITALISIKSI TUNNETUT PITOISUUDET

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	20	100	30	150	15(Miw)	4x	Stoffliste (MAK-Werte und TRK-Werte 2012)

Spain			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Note	Source
20	100	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°	Issuing date	Source
20	100	50	250	84	2007	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

Netherlands		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
100	200	Lijst met wettelijke grenswaarden 2011

Czech Republic			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Note	Source

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100	250	I	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...
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Ireland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	Source
20	100	IOELV	Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary		
Long-term exposure value/ mg/m3	Remarks	Source
100	EU1	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
100	20	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia			
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Remarks	Source
100	20	EU	77

Malta		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
100	20	National Occupational Exposure Limits Malta 2003

Luxembourg		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
100	20	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...

Lithuania		
Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
100	20	36

Bulgaria		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
100	20	81

Latvia		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
100	20	78

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Romania		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
100	20	79

Greece		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
125	25	80

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper

Latvia	
Long-term exposure value/ mg/m3	Source
5	78

Trimethyl benzene

Denmark		
Value / ppm	Value / mg/m3	Source
25	120	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / ppm	Value / mg/m3	Source
20	100	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
20	100	35	170	2018	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland				
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Issuing date	Source	
20	100	1998	HTTP-arvot 2012:5 HAITALISIKSI TUNNETUT PITOISUUDET	

Poland		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
100	170	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerwca...

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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	Source
MAK	20	100	30	150	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
20	100	40	200	SSC	CNS asthma blood	SUVA Switzerland 2017

USA (ACGIH)		
Long-term value	Basis	Source
25 ppm	Irritation, CNS, blood	ACGIH Threshold Limit Values for Chemical Substances 2008

Belgium		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
20	100	Liste de valeurs limites d'expositions professionnelle aux agents ...

Great Britain		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
25	125	EH40/2005 Workplace exposure limits (2011)

Ireland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	Source
20	100	Sk, IOELV	Code of Practice for the Safety Health and Welfare at Work (2011)

Estonia			
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Remarks	Source
100	20	\$PHRASE:mk-m7000;TSU_et_754:PHRASE\$	Töökeskonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Lithuania				
Short-term exposure value / mg/m3	Short-term exposure value / ppm	Remarks	Note	Source
100	20	*1)	K M	36

*1): The same RD, expressed in mg / m3 phtalate is used with this standard, not on RD.

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Iron oxide

Denmark		
Value / mg/m ³	Remarks	Source
3,5	Calculated as Fe	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m ³	Note	Source
3	(Calculated as Fe)	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m ³	Issuing date	Note	Remarks	Source
3,5	1978	Respirable fraction as Fe	*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/m ³	Remarks	Source
5	fume Fe	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET

Poland			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Note	Source
5	10	Inhalable fraction Calculated as Fe	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerwca...
2,5	5	Respirable fraction Calculated as Fe	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerwca...

Austria							
Area of validity	Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Duration	Frequency per shift	Source
MAK		10		20	60(Miw)	2x	Stoffliste (MAK-Werte und TRK-Werte 2012)
MAK	5		10		60(Miw)	2x	Stoffliste (MAK-Werte und TRK-Werte 2012)

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Switzerland			
Long-term exposure value/ mg/m ³	Critical toxicity	Remarks	Source
3 a	Lungfib, lung	(see 1.8.2)	SUVA Switzerland 2017

USA (ACGIH)			
Long-term value	Basis	Remarks	Source
5 mg/m ³	Pneumoconiosis	Not classifiable as a Human Carcinogen Respirable fraction	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ mg/m ³	Remarks	Source	
5	dust and vapour as Fe	Límites de exposición profesional para Agentes Químicos 2014	

France			
Long-term exposure value/ mg/m ³	Issuing date	Source	
10	1987	Valeurs limites d'exposition professionnelle aux agents chimiques en ...	

Belgium			
Long-term exposure value/ mg/m ³	Remarks	Source	
5	Alveolar fraction	Liste de valeurs limites d'expositions professionnelle aux agents ...	

Great Britain			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Remarks	Source
5	10	(as Fe) , fume	EH40/2005 Workplace exposure limits (2011)

Ireland			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Note	Source
5	10	fume as Fe	Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary			
Long-term exposure value/ mg/m ³	Remarks	Source	
6	Respirable fraction	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...	

Estonia			
Long-term exposure value/ mg/m ³	Remarks	Source	
3,5	*1)	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...	

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*1): respirable dust, As Fe Fine dust is dust that reaches the lung section

Slovenia	
Source	
UMCO	

Lithuania		
Short-term exposure value / mg / m3	Remarks	Source
3,5	kaip Fe alveolinū frakcija	36

Bulgaria		
Long-term exposure value/ mg/m3	Note	Source
5	as Fe	81

Romania			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Remarks	Source
5	10	fume, powder	79

Greece			
Long-term exposure value/ mg/m3	Short-term exposure value / mg / m3	Source	
10	10	80	

2-methoxy-1-methylethyl acetate

Germany					
Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
50	270	1(l)	*1) AGW_DE_Y:RHP\$	01/06	TRGS 900

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

Europe						
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Note	Issuing date	Source
275	50	550	100	Skin	2000/39	DIRECTIVE 2009/161/EU

Denmark			
Value / ppm	Value / mg/m3	Note	Source
50	275	EH	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway			
Value / ppm	Value / mg/m3	Note	Source

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50	270	H	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...
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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
50	275	100	550	2015	H	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	Source
50	270	100	550	Skin	HTTP-arvot 2012:5 HAITALISIKSI TUNNETUT PITOISUUDET

Poland		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
260	520	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerwca...

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 resorption / sensitisation	Source
MAK	50	275	100	550	5(Mow)	8x	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	275	50	275	SSC	OAW	SUVA Switzerland 2017

USA	
Long-term exposure value/ ppm	Source
50	83

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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	275	100	550	Transcutaneous, 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	FT n°	Issuing date	Source
50	275	100	550	Risk of penetration into the skin.	221	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	Note	Source
50	275	100	550	D	Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands	
Long-term exposure value/ mg/m3	Source
550	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
50	274	100	548	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
270	550	D, I	NARIZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...

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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
50	275	100	550	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	Remarks	Source
275	550	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	Remarks	Source
50	50	100	275	S	Töökeskkonna keemiliste ohutegurite piinormid 11.10.2007 nr 223 (RT ...

Slovenia				
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Ceiling Limit Value	Remarks	Source
275	50	2	K, EU	77

Malta				
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
275	50	550	100	National Occupational Exposure Limits Malta 2003

Luxembourg					
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Note	Source
275	50	550	100	Skin	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	Note	Source

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250	50	400	75	O	36
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Bulgaria					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Remarks	Source
275	50	550	100	Skin	81

Latvia					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Remarks	Source
275	50	550	100	Āda	78

Romania					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Remarks	Source
275	50	550	100	P	79

Greece					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Note	Source
275	50	550	100	ΕΙΟΤΤΥ.	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 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	Assorted colors (i.e. yellow, blue, red, thinner-clear)
Odour	Acetate
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 ²)]	>1
Flammability (solid, gas)	Not applicable
Explosion limits [Vol-%]	
Lower limit	1 est.
Upper limit	12 est.
Vapour pressure [kPa]	20 °C/68 °F at 70 mmHg
Vapour density	>1
Density [g/cm ³]	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 ² /s]	not determined

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.

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				läufige Selbsteinstufung und Fo...
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Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)				
Value	Test species	Exposure duration	Remarks	Source
6800	Rat	LD50	Category Not applicable	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper				
Value	Test species	Exposure duration	Remarks	Source
2000	Rat	LD50	Acute Toxicity, Category 4	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide				
Value	Test species	Exposure duration	Remarks	Source
10000	Rat	LD50	Category Not applicable	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate				
Value	Test species	Exposure duration	Remarks	Source
8532	Rat	LD50	Category Not applicable	VwV wassergefährdende Stoffe inkl. vorläufige Selbste...

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				instufung und Fo...
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C.I. Pigment Reg 170	
Remarks	Source
No data available	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...

Titanium dioxide				
Value	Test species	Duration	Remarks	Source
10000	Rabbit	LD50	Category Not applicable	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

1,2,4-trimethylbenzene				
Value	Test species	Duration	Remarks	Source
3160	Rabbit	LD50	Acute toxicity Category 5	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)				
Value	Test species	Duration	Remarks	Source
3400	Rabbit	LD50	Acute toxicity Category 5	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper
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Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate				
Value	Test species	Duration	Remarks	Source
5000	Rabbit	LD50	Acute toxicity Category 5	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170	
Remarks	Source
No data available	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...

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

1,2,4-trimethylbenzene	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

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2-[[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate			
Value	Test species	Note	Source
4345	Rat	Category not applicable	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

LC50 Inhalation 4h for vapours [mg/l]

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...

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

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1,2,4-trimethylbenzene				
Value	Duration of dosage	Test species	Note	Source
18	LC50	Rat	Acute Toxicity, Category 4	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170	
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

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

Titanium dioxide			
Value	Test species	Note	Source
6,82	Rat	Category not applicable	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

1,2,4-trimethylbenzene	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	
Note	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate	
Note	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170	
Note	Source

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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...

Titanium dioxide				
Value	Test species	Measuring method	Exposure duration	Source
1000	Fundulus heteroclitus	LC50	96 h	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

1,2,4-trimethylbenzene				
Value	Test species	Measuring method	Exposure duration	Source
7,72	Pimephales promelas (fathead minnow)	LC50	96 h	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)				
Value	Test species	Measuring method	Exposure duration	Source

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9,22	Oncorhynchus mykiss (Rainbow trout)	LC50	96 h	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...
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2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid

Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper

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

Trimethyl benzene

Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide

Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate

Value	Test species	Measuring method	Exposure duration	Source
100	Oncorhynchus mykiss (Rainbow trout)	LC50	96 h	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170

Remarks	Source
No data available	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...

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Titanium dioxide				
Value	Test species	Exposure duration	Measuring method	Source
5,5	Daphnia magna (Big water flea)	48 h	EC50	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

1,2,4-trimethylbenzene				
Value	Test species	Exposure duration	Measuring method	Source
3,60	Daphnia magna (Big water flea)	48 h	EC50	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)				
Value	Test species	Exposure duration	Measuring method	Source
6,14	Daphnia magna (Big water flea)	48 h	EC50	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene				
Value	Test species	Exposure duration	Measuring method	Source
5,60	Palaemonetes pugio	48 h	EC50	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

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Iron oxide	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate				
Value	Test species	Exposure duration	Measuring method	Source
500	Daphnia magna (Big water flea)	48 h	EC50	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

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...

Titanium dioxide				
Value	Test species	Exposure duration	Measuring method	Source
5,83	Pseudokirchneriella subcapitata	72 h	ErC50:	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

1,2,4-trimethylbenzene	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Solvent naphtha (petroleum), light arom., not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)				
Value	Test species	Exposure duration	Measuring method	Source
19	Selenastrum capricornutum	72 h	ErC50:	VwV wassergefährdende Stoffe inkl. vorläufige Selbste...

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				instufung und Fo...
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2-[[1-[[[(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]benzoic acid	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	
Remarks	Source
No data available	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

Trimethyl benzene	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

Iron oxide	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

2-methoxy-1-methylethyl acetate	
Remarks	Source
No data available	VwV wassergefährdende Stoffe inkl. vorläufige Selbsteinstufung und Fo...

C.I. Pigment Reg 170	
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

12.3 Bioaccumulative potential

Bioaccumulation No data available

Bioconcentration factor (BCF) No data available

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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)

15.2 Chemical safety assessment

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

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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.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
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
Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Aquatic Chronic: Hazardous to the aquatic environment

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.