

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

Commercial Product Name : MS3

Article-No. : 7180/7183

Revision date : 02.10.2019

Version : 1.0 /en

Print date : 02.10.2019

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

1.1 Product identifier

Commercial Product Name MS3

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

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.2 Label elements

Hazard pictogram



GHS02



GHS08



GHS07

Signal word

Danger

H-statement(s)

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H320: Causes eye irritation.
H304: May be fatal if swallowed and enters airways.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure .

P-statement(s)

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.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P270: Do not eat, drink or smoke when using this product.
P281: Use personal protective equipment as required.
P285: In case of inadequate ventilation wear respiratory protection.
P273: Avoid release to the environment.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
Naphtha (petroleum), hydrotreated light, not classified as carcinogenic (H350) and not classified as mutagenic (H340) and not classified as toxic for reproduction (H361fd)	CAS No. : 64742-49-0 EC-No. : 265-151-9	Flam. Liq. 2; H225	< 100.0 %
n-hexane	CAS No. : 110-54-3 EC-No. : 203-777-6 Index-No. : 601-037-00-0	Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2 ; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	< 50.0 %
cyclohexane	CAS No. : 110-82-7 EC-No. : 203-806-2 Index-No. : 601-017-00-1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 10.0 %
stoddard solvent; Low boiling point naphtha – unspecified; [A colourless, refined petroleum distillate that is free from rancid or objectionable odours and that boils in a range of approximately 148,8 oC to 204,4 o C (300oF to 400oF).]	CAS No. : 8052-41-3 EC-No. : 232-489-3 Index-No. : 649-345-00-4	Carc. 1B; H350 Muta. 1B; H340 STOT RE 1; H372 Asp. Tox. 1; H304	< 2.5 %
Trimethylsiloxysilicate	CAS No. : 68988-56-7	Flam. Liq. 3; H226	< 2.2 %
xylene	CAS No. : 1330-20-7 EC-No. : 215-535-7 Index-No. : 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4 ; H332 Acute Tox. 4 ; H312 Skin Irrit. 2; H315	< 0.8 %
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	< 0.1 %

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

Move victim to fresh air. Where appropriate artificial ventilation. Arzt hinzuziehen.

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In case of skin contact	Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.
In case of eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
If swallowed	Do NOT induce vomiting. Let water be drunk in little sips (dilution effect). In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media spray mist, (water), Dry extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam

5.3 Advice for firefighters

Special protective equipment for firefighting In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes and skin. Wear suitable protective clothing.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Ausgetretenes Material mit unbrennbarem Aufsaugmittel (z.B. Sand, Erde, Vermiculite, Kieselgur) eingrenzen und zur Entsorgung nach den örtlichen Bestimmungen in den dafür vorgesehenen Behältern sammeln (siehe Kapitel 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Avoid contact with eyes and skin. Vermeiden von: Einatmen von Dämpfen oder Nebel/Aerosole

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

n-hexane

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Germany					
Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
50	180	8(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;

Germany					
Germany	Parameter	Test material	Sampling time	Issuing date	Source
5 mg/l	2,5-Hexandion plus 4,5-Dihydroxy-2-hexanon (nach Hydrolyse)	U	b	05/2013 DFG	TRGS 903

Europe				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Issuing date	Source	
72	20	2006/15	DIRECTIVE 2009/161/EU	

Denmark				
Value / ppm	Value / mg/m3	Note	Source	
20	72	E	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...	

Norway				
Value / ppm	Value / mg/m3	Note	Source	
20	72	R	Veiledning om administrative normer for forurensning i arbejdsatmosfæ...	

Sweden					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Issuing date	Source
20	72	50	180	2018	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	Issuing date	Source	
20	72	Skin	2005	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET	

Poland					
Long-term exposure value/ mg/m3	Source				

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72	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerw...
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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	Source
MAK	f	20	72	80	288	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
50	180	400	1440	H B R2F SSC	NS eye	SUVA Switzerland 2017

USA (ACGIH)			
Long-term value	Basis	Remarks	Source
50 ppm	Neuropathy, CNS, irritation	Danger of cutaneous absorption	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Note	Source
20	72	VLB, VLI	Límites de exposición profesional para Agentes Químicos 2014

France						
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	TMP n°	FT n°	Issuing date	Source
20	72	R2	59, 84	113	2007	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
20	72	Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands

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Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
72	144	Lijst met wettelijke grenswaarden 2011

Great Britain		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
20	72	EH40/2005 Workplace exposure limits (2011)

Czech Republic			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Note	Source
70	200	I, D, P	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...

Ireland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	Source
20	72	IOELV, Sk	Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary			
Long-term exposure value/ mg/m3	Note	Remarks	Source
72	b, i	II.1. BEM EU2	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	
72	20	Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...	

Slovenia			
Carcinogenic	Affects reproductive capacity (RF)	Note	Source
4	-	Y, BAT	UMCO

Luxembourg		
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
72	20	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...

Lithuania			
Short-term exposure value / mg/m3	Short-term exposure value / ppm	Note	Source

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72	20	R	36
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Bulgaria		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
72	20	81

Latvia			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Remarks	Source
72	20	Auswirkungen auf das Hören	78

Romania		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
72	20	79

	Parameter	Sampling time	Source
5 mg/g Creatinine	2,5-Hexanedione urine	End of shift	79

Greece		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
180	50	80

cyclohexane

Germany					
Value / ppm	Value / mg/m ³	Ceiling Limit Value	Remarks	Issuing date	Source
200	700	4(II)	*1)	01/06	TRGS 900

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

Germany					
Germany	Parameter	Test material	Sampling time	Issuing date	Source
150 mg/g Kreatinin	1,2-Cyclohexandiol (nach Hydrolyse)	U	c, b	11/2012 DFG	TRGS 903

Europe			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Issuing date	Source
700	200	2006/15	DIRECTIVE 2009/161/EU

Denmark			
Value / ppm	Value / mg/m ³	Note	Source
50	172	E	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway			
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Value / ppm	Value / mg/m3	Source
150	525	Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Issuing date	Source
200	700	2015	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFT-FÖRORENINGAR 2011:18

Finland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Issuing date	Source
100	350	250	875	2005	HTTP-arvot 2012:5 HAITAL-LISIKSI TUNNETUT PITOISUUDET

Poland		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
300	1000	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerw...

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	200	700	800	2800	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	Remarks	Source
200	700	800	2800	B	CNS	NIOSH	SUVA Switzerland 2017

USA (ACGIH)		
Long-term value	Basis	Source
100 ppm	CNS	ACGIH Threshold Limit Values for Chemical Substances 2008

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Spain			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Note	Source
200	700	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
200	700	375	1300	*1)	84	17	2007	Valeurs limites d'exposition professionnelle aux agents chimiques en ...

*1): La VLE n'est pas réglementaire et provient d'une circulaire du ministère chargé du travail.

Belgium		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
100	350	Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands		
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Source
700	1400	Lijst met wettelijke grenswaarden 2011

Great Britain				
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Source
1 00	350	300	1 050	EH40/2005 Workplace exposure limits (2011)

Czech Republic			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Note	Source
700	2000	I	NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...

Ireland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	Source
200	700	IOELV	Code of Practice for the Safety Health and Welfare at Work (2011)

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Hungary		
Long-term exposure value/ mg/m ³	Remarks	Source
700	II.1. EU2	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
700	200	Töökesskonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia			
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Remarks	Source
700	200	BAT, EU	77

Luxembourg		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
700	200	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...

Lithuania		
Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Source
700	200	36

Bulgaria		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
700	200	81

Latvia		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
80	23	78

Romania		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
700	200	79

Greece		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
1050	300	80

stoddard solvent; Low boiling point naphtha - unspecified; [A colourless, refined petroleum distillate that is free from rancid or objectionable odours and that boils in a range of approximately 148,8 oC to 204,4 o C (300oF to 400oF).]

Denmark			
Value / ppm	Value / mg/m ³	Note	Source

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25	145	Aufgrund dieses Grenzwerts wird die Durchführungsvorordnung Nr. 301 der norwegischen Arbeitsumweltbehörde vom 13. Mai 1993 über die Festlegung von Codenummern geändert. Das Verbotformular in Anhang 2, Gebäude usw. 302 vom 13. Mai 1993 über die Arbeit mit codierten Produkten wird gleichzeitig geändert, so dass wie heute Lackierarbeiten im Winter ohne erhebliche zusätzliche Kosten ausgeführt werden können. Beide Änderungen werden gleichzeitig wirksam.	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...
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Sweden							
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Issuing date	Note	Remarks	Source
30	175	60	350	2011	H, V	*1)	HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

*1): Refers to petrol, ie, petroleum naphtha with its main component in the range of C7 to C12 and with less than 0.1 weight percent benzene. They observe 40 comparisons of petroleum naphtha. The indicated approximate value in ppm is with gasoline 2? 25 percent aroma Athens

Poland			
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Maximum admissible concentration /mg/m ³	Source
300	900	-	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerw...

Switzerland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Remarks	Source
100	525	OSHA < 0,1 Gewichts% Benzol	SUVA Switzerland 2017

USA (ACGIH)		
Long-term value	Basis	Source
100 ppm	Irritation, narcosis, kidney	ACGIH Threshold Limit Values for Chemical Substances 2008

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Belgium		
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
100	533	Liste de valeurs limites d'expositions professionnelle aux agents ...

Ireland			
Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Remarks	Source
100	573	Carc.1B, Muta.1B	Code of Practice for the Safety Health and Welfare at Work (2011)

Estonia				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
300	50	600	100	Töökeskonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...)

Bulgaria	
Long-term exposure value/ mg/m3	Source
500	81

Greece				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Source
575	100	720	125	80

xylene

Germany					
Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
100	440	2(II)	*1) AGW_DE_H:RHP\$	01/06	TRGS 900

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

Germany					
Germany	Parameter	Test material	Sampling time	Issuing date	Source
2000 mg/l	Methylhippur-(Tolur-)säure (alle Isomere)	U	b	11/2016 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	Note	Issuing date	Source

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221	50	442	100	Skin	2000/39	DIRECTIVE 2009/161/EU
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Denmark			
Value / ppm	Value / mg/m3	Note	Source
25	109	EH	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	Note	Source
50	221	100	442	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	Issuing date	Source
50	220	100	440	Skin	2001	HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PI-TOISUUDET

Poland			Source
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3		
100	200		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	Source
MAK	50	221	100	442	15(Miw)	4x	Stoffliste (MAK-Werte und TRK-Werte 2012)

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

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100	435	200	870	H B	OAW & eye CNS dizziness	SUVA Switzer- land 2017
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USA (ACGIH)				
Short term exposure limit	Long-term value	Basis	Remarks	Source
150 ppm	100 ppm	Irritation	Not classifiable as a Human Carcinogen	ACGIH Threshold Limit Values for Chemical Substances 2008

Spain					
Long-term exposure value/ ppm	Long-term exposure value/ mg/ m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Note	Source
50	221	100	442	Transcutaneous, 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
50	221	100	442	Risk of penetration into the skin.	4bis, 84	77	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	221	100	442	D	Liste de valeurs limites d'expositions professionnelles aux agents ...	

Netherlands			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Skin resorption / sensibilisation	Source
210	442	H	Lijst met wettelijke grenswaarden 2011

Great Britain

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50	220	100	441	Can be absorbed through the skin.	EH40/2005 Workplace exposure limits (2011)

Czech Republic					
Long-term exposure value/ mg/m ³	Short-term exposure value / mg/m ³	Note	Source		
200	400	D, I	NARIŽENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc...		

Ireland					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Remarks	Source
50	221	100	442	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	
221	442	b	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
221	50	442	100	A	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	
221	50	2	K, 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	Remarks	Source

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221	50	442	100	Skin	National Occupational Exposure Limits Malta 2003
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Luxembourg					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/ m3	Short-term exposure value / ppm	Note	Source
221	50	442	100	Skin	Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand...

Lithuania					
Short-term exposure value / mg/ m3	Short-term exposure value / ppm	Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Note	Source
200	50	450	100	O	36

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
221	50	442	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
221	50	442	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
221	50	442	100	P	79

	Parameter	Sampling time	Source
3 g/l	Methylenechippuric acid 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	Note	Source
435	100	650	150	ΕΙΟΤΤΥ.	80

1,2,4-trimethylbenzene

Germany					
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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
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	

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

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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
100	250	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	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

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100	20	National Occupational Exposure Limits Malta 2003
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Luxembourg		
Long-term exposure value/ mg/m ³	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/m ³	Short-term exposure value / ppm	Source
100	20	36

Bulgaria		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
100	20	81

Latvia		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
100	20	78

Romania		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
100	20	79

Greece		
Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Source
125	25	80

8.2 Exposure controls

Respiratory protection

Respiratory protection is not necessary if room is well ventilated.
Dämpfe nicht einatmen.

Hand protection

Geeignete Wear protective gloves.

Suitable material

CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber)

Eye protection

Wear eye glasses with side protection according to EN 166.

Skin and body protection

Wear suitable working clothes.

General protective and hygiene measures

Usual hygienic measures of dental practice and dental laboratories.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear oder/or blue
Odour	Hydro carbons
Density [g/cm ³]	5.8 lbs./gal.
Relative density	0.7

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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

Materials to avoid	Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Subacute, subchronic, chronic toxicity	Exposure may damage peripheral nerve tissue & result in peripheral neuropathy, may cause kidney damage or CNS effects. Pre-existing disorders may also be aggravated by exposure.
Irritant effect on skin	Wiederholte oder fortgesetzte Exposition kann Hautreizungen und Dermatitis, auf Grund der entfettenden Eigenschaften des Produkts, bewirken.
Irritant effect on eyes	Liquid, vapors and mist are irritating and can cause a stinging sensation, tearing, reddening and swelling of the eyes.
Irritant effect on the respiratory tract	Mild respiratory irritant. May cause coughing and breathing difficulties. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness. Irritation of the mouth, esophagus, and stomach can develop following ingestion. Symptoms include burning of the mouth, sore throat, vomiting, nausea, dizziness, loss of consciousness. Due to its light

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viscosity, there is danger of aspiration into the lungs during vomiting.
Aspiration can result in severe lung damage or death.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity [mg/l] No data available

12.4 Mobility in soil

Distribution in the environment No data available

12.6 Other adverse effects

Further information on ecology No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Dispose of waste according to applicable legislation.

Uncleaned empty packaging Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	UN 1866	UN 1866	UN 1866
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	II	II	II
14.2 Description of the goods	Naphtha (petroleum), solvent-refined light	Naphtha (petroleum), solvent-refined light	Naphtha (Erdöl), Lösungsmittel-aufbereitete leichte
14.5 Environmental hazards		1: Marine pollutant (P)	

SECTION 15: Regulatory information

SECTION 16: Other information

Relevant H-phrases
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

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H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H340: May cause genetic defects .
H350: May cause cancer .
H372: Causes damage to organs through prolonged or repeated exposure .
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
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity – single exposure
Asp. Tox.: Aspiration hazard
Aquatic Chronic: Hazardous to the aquatic environment
Repr.: Reproductive toxicity
STOT RE: Specific target organ toxicity – repeated exposure
Aquatic Acute: Hazardous to the aquatic environment
Carc.: Carcinogenicity
Muta.: Germ cell mutagenicity
Acute Tox.: Acute toxicity
Eye Irrit.: Serious eye irritation

Further information

The information is based on present level of our knowledge. It does not however, give assurances of product properties and establishes no contract legal rights.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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

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