



Safety Data Sheet according to (EC) No 1907/2006 as amended

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TEROSON 150 AE

SDS No. : 76950

V014.0

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

1.1. Product identifier

TEROSON 150 AE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Primer

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable aerosols	Category 1
H222 Extremely flammable aerosol.	
H229 Pressurized container: May burst if heated.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category 3
H335 May cause respiratory irritation.	
Target organ: respiratory tract irritation	
Specific target organ toxicity - repeated exposure	Category 2
H373 May cause damage to organs through prolonged or repeated exposure.	
Acute toxicity	Category 4
H332 Harmful if inhaled.	
Route of Exposure: Inhalation	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Xylene - mixture of isomers

ethylbenzene

N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether

Signal word:

Danger

Hazard statement:

H222 Extremely flammable aerosol.
 H229 Pressurized container: May burst if heated.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Prevention	No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves.
Precautionary statement:	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Storage	

2.3. Other hazards

The aerosol container is under pressure. Do not expose to high temperatures.

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

Persons suffering from allergic reactions to amines should avoid contact with the product.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Primer, containing solvents

Base substances of preparation:

Mixture of organic solvents

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
dimethyl ether 115-10-6	204-065-8 01-2119472128-37	40- 60 %	Flam. Gas 1 H220 Press. Gas H280
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119488216-32	40- 60 %	Asp. Tox. 1 H304 Acute Tox. 4; Inhalation H332 Acute Tox. 4; Dermal H312 Skin Irrit. 2 H315 Flam. Liq. 3 H226 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 2 H373
ethylbenzene 100-41-4	202-849-4 01-2119489370-35	10- 20 %	Flam. Liq. 2 H225 Acute Tox. 4; Inhalation H332 Asp. Tox. 1 H304 STOT RE 2 H373 Aquatic Chronic 3 H412 Eye Irrit. 2 H319 STOT SE 3 H335 STOT SE 3 H336
N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine 3069-29-2	221-336-6 01-2119963926-21	0,1- < 1 %	Skin Sens. 1A H317 Eye Dam. 1 H318 Acute Tox. 4; Oral H302 Skin Irrit. 2 H315
Toluene 108-88-3	203-625-9 01-2119471310-51	0,1- < 1 %	Flam. Liq. 2 H225 Repr. 2 H361d Asp. Tox. 1 H304 STOT RE 2; Inhalation H373 Skin Irrit. 2 H315 STOT SE 3; Inhalation H336 Aquatic Chronic 3 H412

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

not relevant.

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

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Redness, inflammation.

Vapors may cause drowsiness and dizziness.

EYE: Irritation, conjunctivitis.

SKIN: Rash, Urticaria.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid open flames and sources of ignition.
Ground/bond container and receiving equipment.
Use explosion proof electric equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Hygiene measures:

Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.
Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.
Store in a cool place.
Protect from direct sunlight and temperatures above 50°C. The storage regulations for aerosols apply.
Storage at 15 to 25°C is recommended.

7.3. Specific end use(s)

Primer

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dimethyl ether 115-10-6 [DIMETHYL ETHER]	500	958	Short Term Exposure Limit (STEL):		EH40 WEL
Dimethyl ether 115-10-6 [DIMETHYL ETHER]	400	766	Time Weighted Average (TWA):		EH40 WEL
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV
Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED ISOMERS]	100	441	Short Term Exposure Limit (STEL):		EH40 WEL
Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED ISOMERS]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED ISOMERS]	50	220	Time Weighted Average (TWA):		EH40 WEL
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE]	50	221	Time Weighted Average (TWA):	Indicative	ECTLV
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE]	100	442	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ethylbenzene 100-41-4 [ETHYLBENZENE]	125	552	Short Term Exposure Limit (STEL):		EH40 WEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]	100	441	Time Weighted Average (TWA):		EH40 WEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]	100	442	Time Weighted Average (TWA):	Indicative	ECTLV
Ethylbenzene 100-41-4 [ETHYLBENZENE]	200	884	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Toluene 108-88-3 [TOLUENE]	50	191	Time Weighted Average (TWA):		EH40 WEL
Toluene 108-88-3 [TOLUENE]	100	384	Short Term Exposure Limit (STEL):		EH40 WEL
Toluene 108-88-3 [TOLUENE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Toluene 108-88-3 [TOLUENE]	50	192	Time Weighted Average (TWA):	Indicative	ECTLV
Toluene 108-88-3 [TOLUENE]	100	384	Short Term Exposure Limit (STEL):	Indicative	ECTLV

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dimethyl ether 115-10-6 [DIMETHYL ETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS]	50	221	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE]	50	221	Time Weighted Average (TWA):	Indicative	ECTLV
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE]	100	442	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Xylene 1330-20-7 [XYLENE, MIXED ISOMERS]	100	442	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]	100	442	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]	100	442	Time Weighted Average (TWA):	Indicative	ECTLV
Ethylbenzene 100-41-4 [ETHYLBENZENE]	200	884	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ethylbenzene 100-41-4 [ETHYLBENZENE]	200	884	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Toluene 108-88-3 [TOLUENE]	50	192	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Toluene 108-88-3 [TOLUENE]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Toluene 108-88-3 [TOLUENE]	50	192	Time Weighted Average (TWA):	Indicative	ECTLV
Toluene 108-88-3 [TOLUENE]	100	384	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Toluene 108-88-3 [TOLUENE]	100	384	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Dimethyl ether 115-10-6	aqua (freshwater)		0,155 mg/l				
Dimethyl ether 115-10-6	sediment (freshwater)				0,681 mg/kg		
Dimethyl ether 115-10-6	Soil				0,045 mg/kg		
Dimethyl ether 115-10-6	sewage treatment plant (STP)		160 mg/l				
Dimethyl ether 115-10-6	aqua (marine water)		0,016 mg/l				
Dimethyl ether 115-10-6	aqua (intermittent releases)		1,549 mg/l				
Dimethyl ether 115-10-6	sediment (marine water)				0,069 mg/kg		
Xylene - mixture of isomeres 1330-20-7	aqua (freshwater)		0,327 mg/l				
Xylene - mixture of isomeres 1330-20-7	sediment (freshwater)				12,46 mg/kg		
Xylene - mixture of isomeres 1330-20-7	Soil				2,31 mg/kg		
Xylene - mixture of isomeres 1330-20-7	aqua (marine water)		0,327 mg/l				
Xylene - mixture of isomeres 1330-20-7	aqua (intermittent releases)		0,327 mg/l				
Xylene - mixture of isomeres 1330-20-7	sewage treatment plant (STP)		6,58 mg/l				
Xylene - mixture of isomeres 1330-20-7	sediment (marine water)				12,46 mg/kg		
ethylbenzene 100-41-4	aqua (intermittent releases)		0,1 mg/l				
ethylbenzene 100-41-4	aqua (freshwater)		0,1 mg/l				
ethylbenzene 100-41-4	sediment (marine water)				1,37 mg/kg		
ethylbenzene 100-41-4	sediment (freshwater)				13,7 mg/kg		
ethylbenzene 100-41-4	sewage treatment plant (STP)		9,6 mg/l				
ethylbenzene 100-41-4	aqua (marine water)		0,01 mg/l				
ethylbenzene 100-41-4	Soil				2,68 mg/kg		
ethylbenzene 100-41-4	oral				20 mg/kg		
Toluene 108-88-3	aqua (freshwater)		0,68 mg/l				
Toluene 108-88-3	sediment (freshwater)				16,39 mg/kg		
Toluene 108-88-3	sediment (marine water)				16,39 mg/kg		
Toluene 108-88-3	Soil				2,89 mg/kg		
Toluene 108-88-3	sewage treatment plant (STP)		13,61 mg/l				
Toluene 108-88-3	aqua (marine water)		0,68 mg/l				
Toluene 108-88-3	aqua (intermittent releases)		0,68 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Dimethyl ether 115-10-6	Workers	inhalation	Long term exposure - systemic effects		1894 mg/m3	
Dimethyl ether 115-10-6	General population	inhalation	Long term exposure - systemic effects		471 mg/m3	
Xylene - mixture of isomers 1330-20-7	Workers	inhalation	Long term exposure - systemic effects		221 mg/m3	
Xylene - mixture of isomers 1330-20-7	Workers	inhalation	Acute/short term exposure - systemic effects		442 mg/m3	
Xylene - mixture of isomers 1330-20-7	Workers	inhalation	Long term exposure - local effects		221 mg/m3	
Xylene - mixture of isomers 1330-20-7	Workers	inhalation	Acute/short term exposure - local effects		442 mg/m3	
Xylene - mixture of isomers 1330-20-7	Workers	dermal	Long term exposure - systemic effects		212 mg/kg	
Xylene - mixture of isomers 1330-20-7	General population	inhalation	Long term exposure - systemic effects		65,3 mg/m3	
Xylene - mixture of isomers 1330-20-7	General population	inhalation	Acute/short term exposure - systemic effects		260 mg/m3	
Xylene - mixture of isomers 1330-20-7	General population	inhalation	Long term exposure - local effects		65,3 mg/m3	
Xylene - mixture of isomers 1330-20-7	General population	inhalation	Acute/short term exposure - local effects		260 mg/m3	
Xylene - mixture of isomers 1330-20-7	General population	dermal	Long term exposure - systemic effects		125 mg/kg	
Xylene - mixture of isomers 1330-20-7	General population	oral	Long term exposure - systemic effects		12,5 mg/kg	
ethylbenzene 100-41-4	Workers	inhalation	Acute/short term exposure - local effects		293 mg/m3	
ethylbenzene 100-41-4	General population	inhalation	Long term exposure - systemic effects		15 mg/m3	
ethylbenzene 100-41-4	General population	oral	Long term exposure - systemic effects		1,6 mg/kg	
ethylbenzene 100-41-4	Workers	dermal	Long term exposure - systemic effects		180 mg/kg	
ethylbenzene 100-41-4	Workers	inhalation	Long term exposure - systemic effects		77 mg/m3	
Toluene 108-88-3	Workers	Inhalation	Acute/short term exposure - local effects		384 mg/m3	
Toluene 108-88-3	Workers	Inhalation	Acute/short term exposure - systemic effects		384 mg/m3	
Toluene 108-88-3	Workers	Inhalation	Long term exposure - local effects		192 mg/m3	
Toluene 108-88-3	Workers	Inhalation	Long term exposure - systemic effects		192 mg/m3	
Toluene 108-88-3	Workers	dermal	Long term exposure - systemic effects		384 mg/kg	
Toluene 108-88-3	General population	Inhalation	Acute/short term exposure - local		226 mg/m3	

			effects			
Toluene 108-88-3	General population	Inhalation	Acute/short term exposure - systemic effects		226 mg/m ³	
Toluene 108-88-3	General population	Inhalation	Long term exposure - systemic effects		56,5 mg/m ³	
Toluene 108-88-3	General population	dermal	Long term exposure - systemic effects		226 mg/kg	
Toluene 108-88-3	General population	oral	Long term exposure - systemic effects		8,13 mg/kg	
Toluene 108-88-3	General population	inhalation	Long term exposure - local effects		56,5 mg/m ³	

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Xylene 1330-20-7 [XYLENE O-, M-, P-, OR MIXED ISOMERS]	Methylhippur ic acids	Creatinine in urine	Sampling time: End of shift.		UKEH40BMG V		

8.2. Exposure controls:

Engineering controls:

In case of aerosol forming ensure sufficient suction and ventilation.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Fluorinated rubber (FKM; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Fluorinated rubber (FKM; ≥ 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway).

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	aerosol liquid yellowish
Odor	aromatic
Odour threshold	No data available / Not applicable
pH	No data available / Not applicable
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	< 60 °C (< 140 °F)
Flash point	-41 °C (-41.8 °F); no method
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	
lower	1,1 %(V)
upper	18,6 %(V)
Vapour pressure	7500 mbar
(55 °C (131 °F))	
Vapour pressure	3900 mbar
(20 °C (68 °F))	
Relative vapour density:	No data available / Not applicable
Density	0,77 g/cm ³
(20 °C (68 °F))	
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative)	Not miscible
(Solvent: Water)	
Partition coefficient: n-octanol/water	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

Flow cup viscosity	10 - 15 s
(20 °C (68 °F); Type of cup: DIN-Cup; Nozzle: 4,0 mm ;; Flowcup Viscosity; HT-Method)	
max. VOC content:	749,2 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizers.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Temperatures over appr. 50 °C

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

General toxicological information:

Persons suffering from allergic reactions to amines should avoid contact with the product.

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Xylene - mixture of isomeres 1330-20-7	LD50	3.523 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
ethylbenzene 100-41-4	LD50	3.500 mg/kg	rat	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	LD50	200 - 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
Toluene 108-88-3	LD50	5.580 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Xylene - mixture of isomeres 1330-20-7	LD50	1.700 mg/kg	rabbit	not specified
ethylbenzene 100-41-4	LD50	15.433 mg/kg	rabbit	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	LD50	15.520 mg/kg	rabbit	not specified
Toluene 108-88-3	LD50	> 5.000 mg/kg	rabbit	not specified

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
dimethyl ether 115-10-6	LC50	164000 ppm	gas	4 h	rat	not specified
Xylene - mixture of isomeres 1330-20-7	LC50	11 mg/l	vapour	4 h	rat	not specified
ethylbenzene 100-41-4	LC50	17,2 mg/l	vapour	4 h	rat	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	LC50	> 5,2 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	Acute toxicity estimate (ATE)	5,21 mg/l	dust/mist	4 h		Expert judgement
Toluene 108-88-3	LC50	28,1 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Toluene 108-88-3	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Toluene 108-88-3	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Xylene - mixture of isomeres 1330-20-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	sensitising	Guinea pig maximisation test	guinea pig	not specified
Toluene 108-88-3	not sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
dimethyl ether 115-10-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Xylene - mixture of isomeres 1330-20-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Xylene - mixture of isomeres 1330-20-7	negative	in vitro mammalian chromosome aberration test	with and without		EU Method B.10 (Mutagenicity)
Xylene - mixture of isomeres 1330-20-7	negative	sister chromatid exchange assay in mammalian cells	with and without		EU Method B.19 (Sister Chromatid Exchange Assay In Vitro)
ethylbenzene 100-41-4	negative	sister chromatid exchange assay in mammalian cells	with and without		not specified
ethylbenzene 100-41-4	negative	in vitro mammalian chromosome aberration test	with and without		not specified
ethylbenzene 100-41-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Toluene 108-88-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Toluene 108-88-3	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Xylene - mixture of isomeres 1330-20-7	negative	intraperitoneal		rat	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
ethylbenzene 100-41-4	negative	intraperitoneal		mouse	Micronucleus assay
Toluene 108-88-3	negative	intraperitoneal		rat	not specified
Toluene 108-88-3	negative	inhalation: vapour		mouse	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Xylene - mixture of isomeres 1330-20-7	not carcinogenic	oral: gavage	103 w 5 d/w	rat	male/female	EU Method B.32 (Carcinogenicity Test)
Toluene 108-88-3	not carcinogenic	inhalation: vapour	103 w 6.5 h/d, 5 d/w	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Toluene 108-88-3	NOAEL P 7500 mg/m ³ NOAEL F1 1875 mg/m ³ NOAEL F2 1875 mg/m ³	Two generation study	inhalation: vapour	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Toluene 108-88-3	NOAEL P 2261 mg/m ³ NOAEL F1 2261 mg/m ³	fertility	inhalation: vapour	rat	not specified

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
dimethyl ether 115-10-6	NOAEL > 10000 ppm	inhalation	4 week 6 hours/day, 5 days/week	rat	not specified
Xylene - mixture of isomeres 1330-20-7	NOAEL 150 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
ethylbenzene 100-41-4		inhalation	4weeks 6 hours/day, 5 days/week	mouse	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
Toluene 108-88-3	NOAEL 625 mg/kg	oral: gavage	13 weeks daily, 5 d/w	rat	EU Method B.26 (Sub- Chronic Oral Toxicity Test: Repeated Dose 90- Day Oral Toxicity Study in Rodents)
Toluene 108-88-3	NOAEL 2355 mg/m ³	inhalation: vapour	15 w 6.5 h/d, 5 d/w	rat	EU Method B.29 (Sub- Chronic Inhalation Toxicity Test: 90-Day Repeated Inhalation Dose Study Using Rodent Species)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
ethylbenzene 100-41-4	0,641 mm ² /s	40 °C	OECD Test Guideline 114	
Toluene 108-88-3	0,57 mm ² /s	40 °C	not specified	

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dimethyl ether 115-10-6	LC50	> 4.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomers 1330-20-7	LC50	2,6 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
ethylbenzene 100-41-4	LC50	4,2 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
N-[3-(dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	LC50	597 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
Toluene 108-88-3	NOEC	3,2 mg/l	28 d	Cyprinodon variegatus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Toluene 108-88-3	LC50	5,5 mg/l	96 h	Oncorhynchus kisutch	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dimethyl ether 115-10-6	EC50	> 4.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomers 1330-20-7	EC50	3,1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
ethylbenzene 100-41-4	EC50	> 1,8 - 2,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-[3-(dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Toluene 108-88-3	EC50	11,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
ethylbenzene 100-41-4	NOEC	0,96 mg/l	7 d	Ceriodaphnia dubia	OECD 211 (Daphnia magna, Reproduction Test)
Toluene 108-88-3	NOEC	0,74 mg/l	7 d	Ceriodaphnia dubia	other guideline:

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dimethyl ether 115-10-6	EC50	> 1.000 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Xylene - mixture of isomers 1330-20-7	ErC50	4,36 mg/l	73 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Xylene - mixture of isomers 1330-20-7	EC10	1,9 mg/l	73 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
ethylbenzene 100-41-4	EC50	7,7 mg/l	96 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
ethylbenzene 100-41-4	NOEC	4,5 mg/l	96 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Toluene 108-88-3	IC50	12 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dimethyl ether 115-10-6	EC10	> 1.600 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Xylene - mixture of isomers 1330-20-7	EC 50	> 1 - 10 mg/l			not specified
ethylbenzene 100-41-4	EC50	> 152 mg/l	30 min	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	EC10	25 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Toluene 108-88-3	NOEC	29 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
dimethyl ether 115-10-6	not readily biodegradable.	aerobic	5 %	28 d	EU Method C.4-A (Determination of the "Ready" Biodegradability/Dissolved Organic Carbon (DOC) Die-Away Test)
Xylene - mixture of isomers 1330-20-7	readily biodegradable	aerobic	90 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
ethylbenzene 100-41-4	readily biodegradable	aerobic	69 %	33 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	not readily biodegradable.	aerobic	39 %	28 day	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Toluene 108-88-3	readily biodegradable	aerobic	80 %	20 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Xylene - mixture of isomers 1330-20-7	25,9	56 day		Oncorhynchus mykiss	not specified
ethylbenzene 100-41-4	1	42 d	10 °C	Oncorhynchus kisutch	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Toluene 108-88-3	90	3 d		Leuciscus idus melanotus	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
dimethyl ether 115-10-6	0,07	25 °C	QSAR (Quantitative Structure Activity Relationship)
Xylene - mixture of isomers 1330-20-7	3,16	20 °C	not specified
ethylbenzene 100-41-4	3,6	20 °C	EU Method A.8 (Partition Coefficient)
N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine 3069-29-2	1	20 °C	QSAR (Quantitative Structure Activity Relationship)
Toluene 108-88-3	2,73	20 °C	EU Method A.8 (Partition Coefficient)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
dimethyl ether 115-10-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Xylene - mixture of isomers 1330-20-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
ethylbenzene 100-41-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine 3069-29-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Toluene 108-88-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

080409

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packing group

ADR	
RID	
ADN	
IMDG	
IATA	

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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

not applicable

SECTION 15: Regulatory information

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

VOC content	97,40 %
(VOCV 814.018 VOC regulation CH)	
VOC content	97,40 %
(2010/75/EU)	

VOC Paints and Varnishes (EU):

Regulatory Basis:	Directive 2004/42/EC
Product (sub)category:	B(e) Special finishes
Phase I (from 1.1.2007):	840 g/l
max. VOC content:	749,2 g/l

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Further information:

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