

## Safety Data Sheet according to Regulation (EC) No 1907/2006

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**TEROSON 150 AE** 

SDS No. : 76950 V012.0 Revision: 24.01.2018 printing date: 09.07.2018 Replaces version from: 30.11.2017

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

## 1.1. Product identifier

TEROSON 150 AE

#### **Contains:**

Xylene - mixture of isomeres Ethylbenzene N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether

# **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 Pressurised 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	

#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:		
	• • •	

Danger

Signal word:

Hazard statement:	<ul> <li>H222 Extremely flammable aerosol.</li> <li>H229 Pressurised container: May burst if heated.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statement: Prevention	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 Do not spray on an open flame or other ignition source.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P280 Wear protective gloves.</li> </ul>
Precautionary statement: Storage	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### 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 H332 Asp. Tox. 1 H304 STOT RE 2 H373 Aquatic Chronic 3 H412
N-[3- (dimethoxymethylsilyl)propyl]ethylenedia mine 3069-29-2	221-336-6 01-2119963926-21	0,1-< 0,5 %	Skin Sens. 1A H317 Eye Dam. 1 H318 Acute Tox. 4 H302 Skin Irrit. 2 H315
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	221-453-2 01-2119959496-20	0,1-< 1 %	Skin Sens. 1 H317 Aquatic Chronic 2 H411
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.

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

## Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Dimethyl ether	aqua		0,155 mg/l	1			
115-10-6	(freshwater)				0.001		
Dimethyl ether 115-10-6	sediment (freshwater)				0,681 mg/kg		
Dimethyl ether	soil				0,045		
115-10-6	3011				mg/kg		
Dimethyl ether	sewage		160 mg/l		88		
115-10-6	treatment plant (STP)		_				
Dimethyl ether 115-10-6	aqua (marine water)		0,016 mg/l				
Dimethyl ether	aqua		1,549 mg/l				
115-10-6	(intermittent releases)		,				
Dimethyl ether	sediment				0,069		
115-10-6	(marine water)				mg/kg		
Xylene - mixture of isomeres 1330-20-7	aqua (freshwater)		0,327 mg/l				
Xylene - mixture of isomeres	sediment				12,46		
1330-20-7	(freshwater)				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	aqua		0,327 mg/l				
1330-20-7	(intermittent releases)		_				
Xylene - mixture of isomeres	sewage		6,58 mg/l				
1330-20-7	treatment plant (STP)						
Xylene - mixture of isomeres	sediment				12,46		
1330-20-7	(marine water)				mg/kg		
Ethylbenzene 100-41-4	aqua (intermittent releases)		0,1 mg/l				
Ethylbenzene	aqua		0,1 mg/l				
100-41-4	(freshwater)		0,1 mg/1				
Ethylbenzene	sediment				1,37 mg/kg		
100-41-4	(marine water)				10.5		
Ethylbenzene 100-41-4	sediment (freshwater)				13,7 mg/kg		
Ethylbenzene	sewage		9,6 mg/l				
100-41-4	treatment plant (STP)		,0 mg/1				
Ethylbenzene	aqua (marine		0,01 mg/l				
100-41-4	water)		.,				
Ethylbenzene 100-41-4	soil				2,68 mg/kg		
Ethylbenzene	oral				20 mg/kg		
100-41-4			0.0075				
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	aqua (freshwater)		0,0075 mg/l				
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether			0,00075				
3101-60-8	water)		mg/l				
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether			100 mg/l				
3101-60-8	treatment plant (STP)						
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether					33,54		
3101-60-8	(freshwater)				mg/kg		
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	sediment (marine water)				3,354 mg/kg		
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	· · · · · · · · · · · · · · · · · · ·		1		11,4 mg/kg		
Toluene	aqua		0,68 mg/l				
108-88-3	(freshwater)		.,				
Toluene	sediment				16,39		
108-88-3 Taluara	(freshwater)				mg/kg		
Toluene 108-88-3	sediment (marine water)				16,39 mg/kg		
100-00-5	(marme water)		1	L	mg/kg	l	1

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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 isomeres 1330-20-7	Workers	Inhalation	Acute/short term exposure - systemic effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	Workers	Inhalation	Acute/short term exposure - local effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	Workers	dermal	Long term exposure - systemic effects		180 mg/kg	
Xylene - mixture of isomeres 1330-20-7	Workers	Inhalation	Long term exposure - systemic effects		77 mg/m3	
Xylene - mixture of isomeres 1330-20-7	General population	Inhalation	Acute/short term exposure - systemic effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	General population	Inhalation	Acute/short term exposure - local effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	General population	dermal	Long term exposure - systemic effects		108 mg/kg	
Xylene - mixture of isomeres 1330-20-7	General population	Inhalation	Long term exposure - systemic effects		14,8 mg/m3	
Xylene - mixture of isomeres 1330-20-7	Workers	Inhalation	Long term exposure - local effects		77 mg/m3	
Xylene - mixture of isomeres 1330-20-7	General population	oral	Long term exposure - systemic effects		1,6 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	
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8		inhalation	Long term exposure - systemic effects		19,6 mg/m3	
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	Workers	inhalation	Acute/short term exposure - systemic effects		19,6 mg/m3	
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8		inhalation	Acute/short term exposure - local effects		19,6 mg/m3	
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	Workers	inhalation	Long term exposure - local effects		19,6 mg/m3	
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8	Workers	dermal	Long term exposure - systemic effects		5,6 mg/kg	
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 -		384 mg/m3	

		1	systemic effects		
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 effects	226 mg/m3	
Toluene 108-88-3	General population	Inhalation	Acute/short term exposure - systemic effects	226 mg/m3	
Toluene 108-88-3	General population	Inhalation	Long term exposure - systemic effects	56,5 mg/m3	
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/m3	

### **Biological Exposure Indices:**

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

#### 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/cm3
(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)	

749,2 g/l

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

max. VOC content:

Reaction with strong oxidants.

10.2. Chemical stability

Stable under recommended storage conditions.

4,0 mm ;; Flowcup Viscosity; HT-Method)

## 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	Value	Value	Species	Method
CAS-No.	type			
Xylene - mixture of	LD50	3.523 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
isomeres				
1330-20-7				
Ethylbenzene	LD50	3.500 mg/kg	rat	not specified
100-41-4				
N-[3-	LD50	200 - 2.000	rat	OECD Guideline 423 (Acute Oral toxicity)
(dimethoxymethylsilyl)pr		mg/kg		
opyl]ethylenediamine				
3069-29-2				
p-tert-Butylphenyl 1-(2,3-	LD50	> 10.000 mg/kg	rat	not specified
epoxy)propyl ether				
3101-60-8				
Toluene	LD50	5.580 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
108-88-3				

## Acute dermal toxicity:

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

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Xylene - mixture of isomeres 1330-20-7	LD50	1.700 mg/kg	rabbit	not specified
Ethylbenzene 100-41-4	LD50	5.000 mg/kg	rabbit	not specified
N-[3- (dimethoxymethylsilyl)pr opyl]ethylenediamine 3069-29-2	LD50	15.520 mg/kg	rabbit	not specified
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
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	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Dimethyl ether	LC50	164000 ppm		4 h	rat	not specified
115-10-6						
Xylene - mixture of	LC50	11 mg/l	vapour	4 h	rat	not specified
isomeres						
1330-20-7						
Ethylbenzene	LC50	17,2 mg/l	vapour	4 h	rat	not specified
100-41-4						
N-[3-	LC50	> 5,2 mg/l	aerosol	4 h	rat	OECD Guideline 403 (Acute
(dimethoxymethylsilyl)pr						Inhalation Toxicity)
opyl]ethylenediamine						
3069-29-2						
Toluene	LC50	28,1 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute
108-88-3						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)
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	not irritating	24 h	rat	other guideline:
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)
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	not irritating	72 h	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
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
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		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

## Carcinogenicity

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

Hazardous components	Result	Route of	Exposure	Species	Sex	Method
CAS-No.		application	time /			
			Frequency			
			of treatment			
Xylene - mixture of	not carcinogenic	oral: gavage	103 w	rat	male/female	EU Method B.32
isomeres			5 d/w			(Carcinogenicity Test)
1330-20-7						

No data available.

## 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 days/ week	rat	EU Method B.26 (Sub- Chronic Oral Toxicity Test: Repeated Dose 90- Day Oral Toxicity Study in Rodents)

#### 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 mm2/s	40 °C	OECD Test Guideline 114	
Toluene 108-88-3	0,57 mm2/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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Dimethyl ether	LC50	> 4.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish,
115-10-6					Acute Toxicity Test)
Xylene - mixture of isomeres	LC50	86 mg/l		Leuciscus idus	OECD Guideline 203 (Fish,
1330-20-7					Acute Toxicity Test)
Ethylbenzene	LC50	4,2 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
100-41-4					Acute Toxicity Test)
N-[3-	LC50	597 mg/l	96 h	Brachydanio rerio (new name:	EU Method C.1 (Acute
(dimethoxymethylsilyl)propyl]				Danio rerio)	Toxicity for Fish)
ethylenediamine					
3069-29-2					
p-tert-Butylphenyl 1-(2,3-	LC50	7,5 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
epoxy)propyl ether					Acute Toxicity Test)
3101-60-8					
Toluene	NOEC	3,2 mg/l	28 d	Cyprinodon variegatus	OECD Guideline 204 (Fish,
108-88-3					Prolonged Toxicity Test:
					14-day Study)
Toluene	LC50	5,5 mg/l	96 h	Oncorhynchus kisutch	OECD Guideline 203 (Fish,
108-88-3					Acute Toxicity Test)

#### Toxicity (Daphnia):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Dimethyl ether	EC50	> 4.000 mg/l	48 h	Daphnia magna	OECD Guideline 202
115-10-6		_			(Daphnia sp. Acute
					Immobilisation Test)
Xylene - mixture of isomeres	EC50	3,1 mg/1	48 h	Daphnia magna	OECD Guideline 202
1330-20-7		_			(Daphnia sp. Acute
					Immobilisation Test)
Ethylbenzene	EC50	> 1,8 - 2,4 mg/l	48 h	Daphnia magna	OECD Guideline 202
100-41-4				· ·	(Daphnia sp. Acute
					Immobilisation Test)
N-[3-	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202
(dimethoxymethylsilyl)propyl]		_			(Daphnia sp. Acute
ethylenediamine					Immobilisation Test)
3069-29-2					,
p-tert-Butylphenyl 1-(2,3-	EC50	67,9 mg/l	48 h	Daphnia magna	OECD Guideline 202
epoxy)propyl ether		, i i i i i i i i i i i i i i i i i i i		· ·	(Daphnia sp. Acute
3101-60-8					Immobilisation Test)
Toluene	EC50	11,5 mg/l	48 h	Daphnia magna	OECD Guideline 202
108-88-3		-			(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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Ethylbenzene	NOEC	0,96 mg/l	7 d	Ceriodaphnia dubia	OECD 211 (Daphnia
100-41-4					magna, Reproduction Test)
Toluene	NOEC	0,74 mg/l	7 d	Ceriodaphnia dubia	other guideline:
108-88-3		-		_	_

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Dimethyl ether 115-10-6	EC50	> 1.000 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Xylene - mixture of isomeres 1330-20-7	EC50	2,2 mg/l	72 h	Selenastrum capricornutum (new name: 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)
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	EC50	9 mg/l	72 h	Pseudokirchneriella subcapitata	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	Value	Value	Exposure time	Species	Method
CAS-No.	type		-	-	
Dimethyl ether	EC10	> 1.600 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27
115-10-6					(Bacterial oxygen consumption test)
Xylene - mixture of isomeres 1330-20-7	EC 50	> 1 - 10 mg/l			not specified
Ethylbenzene 100-41-4	EC 50	> 152 mg/l	30 min		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)
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	EC50	> 1.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition 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" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)
Xylene - mixture of isomeres 1330-20-7	readily biodegradable	aerobic	> 60 %		OECD 301 A - F
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)
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	not readily biodegradable.	aerobic	1,1 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle 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.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Xylene - mixture of isomeres 1330-20-7	8,5	7 d		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	LogPow	Temperature	Method
CAS-No.			
Dimethyl ether	0,07	25 °C	QSAR (Quantitative Structure Activity Relationship)
115-10-6			
Xylene - mixture of isomeres 1330-20-7	3,12		not specified
Ethylbenzene	3,6	20 °C	EU Method A.8 (Partition Coefficient)
100-41-4			
N-[3- (dimethoxymethylsilyl)propyl] ethylenediamine 3069-29-2	1	20 °C	QSAR (Quantitative Structure Activity Relationship)
p-tert-Butylphenyl 1-(2,3- epoxy)propyl ether 3101-60-8	3,59	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Toluene 108-88-3	2,73	20 °C	EU Method A.8 (Partition Coefficient)

## 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
Dimethyl ether	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
115-10-6	Bioaccumulative (vPvB) criteria.
Xylene - mixture of isomeres	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
1330-20-7	Bioaccumulative (vPvB) criteria.
Ethylbenzene	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
100-41-4	Bioaccumulative (vPvB) criteria.
N-[3-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
(dimethoxymethylsilyl)propyl]ethylenediamine	Bioaccumulative (vPvB) criteria.
3069-29-2	
p-tert-Butylphenyl 1-(2,3-epoxy)propyl ether	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
3101-60-8	Bioaccumulative (vPvB) criteria.
Toluene	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
108-88-3	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 150104 150110

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.

#### 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 Aerosols, flammable IATA 14.3. Transport hazard class(es) ADR 2.1 RID 2.1 2.1 ADN 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 not applicable ADN IMDG not applicable IATA not applicable 14.6. Special precautions for user ADR not applicable Tunnelcode: (D) RID not applicable not applicable ADN 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 97,3 %

97,3 %

VOC content (VOCV 814.018 VOC regulation CH) VOC content (2010/75/EU) Page 20 of 21

## VOC Paints and Varnishes (EU):

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

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

#### Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.