

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

### 1.1. Product identifier

Mixture identification:

Trade name: POLYPRIMER CE

Trade code: 9072612

UFI: 7QK1-005D-0009-PREK

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

Recommended use: One -component bituminous coating

Uses advised against: Data not available

### 1.3. Details of the supplier of the safety data sheet

Company: POLYGLASS S.p.A. - Viale Jenner, 4 - 20159 Milano

Tel: +39-0422-7547 - Fax: +39-0422-854118 (office hours)

Responsible: info@polyglass.it

### 1.4. Emergency telephone number

Centro antiveleni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveleni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819

Centro antiveleni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveleni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveleni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveleni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveleni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343

Centro antiveleni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveleni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveleni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Repr. 2	Suspected of damaging fertility or the unborn child.
STOT SE 3	May cause drowsiness or dizziness.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) n. 1272/2008 (CLP)

#### Pictograms and Signal Words



Danger

#### Hazard statements:

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/clothing and eye/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.

**Contains:**

toluene  
hydrocarbons C9 aromatics  
n-butyl acetate  
ethyl acetate

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

None.

**2.3. Other hazards**

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

Other Hazards: No other hazards

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not Relevant

**3.2. Mixtures**

Mixture identification: POLYPRIMER CE

**Hazardous components within the meaning of the CLP regulation and related classification:**

Concentration (%) w/w)	Name	Ident. Numb.	Classification	Registration Number
$\geq 10 - < 20$ %	o-xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	01-2119488216-32
$\geq 10 - < 20$ %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021-00-3	Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336	01-2119471310-51-XXXX
$\geq 5 - < 10$ %	hydrocarbons C9 aromatics	CAS:64742-95-6, 128601-23-0 EC:265-199-0 Index:649-356-00-4	Flam. Liq. 3, H226; STOT SE 3, H335; Asp. Tox. 1, H304; Aquatic Chronic 2, H411, H336, EUH066	01-2119486773-24-XXXX
$\geq 5 - < 10$ %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29
$\geq 2.5 - < 5$ %	ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119475103-46

≥1 - <2.5 %	acetone	CAS:67-64-1 EC:200-662-2 Index:606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119471330-49-XXXX
≥1 - <2.5 %	butanone	CAS:78-93-3 EC:201-159-0 Index:606-002-00-3	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119457290-43-0000
≥1 - <2.5 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023-00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373; Asp. Tox. 1, H304	
≥1 - <2.5 %	styrene	CAS:100-42-5 EC:202-851-5 Index:601-026-00-0	Flam. Liq. 3, H226; Repr. 2, H361d; Acute Tox. 4, H332; STOT RE 1, H372; Skin Irrit. 2, H315; Eye Irrit. 2, H319	01-2119457861-32-xxxx
≥1 - <2.5 %	4-methylpentan-2-one; isobutyl methyl ketone	CAS:108-10-1 EC:203-550-1 Index:606-004-00-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H335; Acute Tox. 4, H332, EUH066	01-2119473980-30-XXXX
≥1 - <2.5 %	1,3,5-trimethylbenzene	CAS:108-67-8 EC:203-604-4 Index:601-025-00-5	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411  Specific Concentration Limits: C ≥ 25%: STOT SE 3 H335	01-2119463878-19-XXXX
≥0.25 - <0.49 %	heptane; n-heptane	CAS:142-82-5 EC:205-563-8 Index:601-008-00-2	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119475515-33-xxxx
≥0.25 - <0.49 %	n-hexane	CAS:110-54-3 EC:203-777-6 Index:601-037-00-0	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT RE 2, H373 Asp. Tox. 1, H304 STOT SE 3, H336 Repr. 2, H361f Aquatic Chronic 2, H411  Specific Concentration Limits: 5% ≤ C < 100%: STOT RE 2 H373	01-2119480412-44-XXXX

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

Use suitable breathing apparatus.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

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

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
o-xylene	National	SWEDEN		221	50	442	100		SWEDEN, Short term value, 15 minutes average value
	National	FINLAND		220	50	440	100		FINLAND, hud
	National	NORWAY		108	25				NORWAY, H
	EU	None		221	50	442	100		Skin

	National NORWAY		109	25	218	50	
	ACGIH	None		100		150	A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY			880	200	
	ACGIH			100		150	A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation
	National	SWEDEN	221	50			
	National	FRANCE	221	50	442	100	
	National	SPAIN	221	50	442	100	
	National	GREECE	435	100	650	150	
	National	DENMARK	109	25			
	National	FINLAND	220	50	440	100	
	National	GERMANY	440	100			
	National	PORTUGAL	221	50	442	100	
	National	NORWAY	108	25	135	37.5	
	National	BELGIUM	221	50	442	100	
	NDS	POLAND	100				
	NDSch	POLAND			200		
	CHE	SWITZERLAND			870	200	
	NDS	NETHERLANDS	210		442		
	National	CZECH REPUBLIC	200				
	National	HUNGARY	221		442		
	Malaysi a OEL	MALAYSIA	434	100			
	National	ESTONIA	200	50	450	100	
	National	LATVIA	221	50	442	100	
	National	CZECH REPUBLIC			400		
	National	SLOVAKIA			442		
	National	SLOVAKIA	221	50			
	National	SLOVENIA	221	50	442	100	
	National	UNITED KINGDOM	220	50	441	100	
	National	BULGARIA	221.0	50	442	100	
	National	ROMANIA	221	50	442	100	
	TUR	TURKEY	221	50	442	100	
	National	LITHUANIA	221	50	442	100	
	National	CROATIA	221	50	442	100	
	EU		221	50	442	100	Indicative Possibility of significant uptake through the skin (pure)
	DFG	GERMANY			440	100	
toluene	SUVA	None	190	50	760	200	
	National	SWEDEN	192	50	384	100	SWEDEN, Short term value, 15 minutes average value
	National	FINLAND	81	25	380	100	FINLAND, hud, buller
	National	NORWAY	94	25			NORWAY, H
	NDS	None	100				
	NDSch	None	200				
	National	NORWAY	94	25	188	50	
	EU	None	192	50	384	100	Skin

	ACGIH	None		20						A4, BEI - Visual impair, female repro, pregnancy loss
	DFG	GERMANY	C			760	200			
	ACGIH			20						A4 - Not Classifiable as a Human Carcinogen;female reproductive damage;pregnancy loss;visual impairment
	National	SWEDEN		192	50					
	EU			192	50	384	100	Indicative		Possibility of significant uptake through the skin
	National	FRANCE		76.8	20	384	100			
	National	SPAIN		192	50	384	100			
	National	GREECE		192	50	384	100			
	National	DENMARK		94	25					
	National	FINLAND		81	25	380	100			
	National	GERMANY		190	50					
	National	PORTUGAL		192	50	384	100			
	National	NORWAY		94	25	141	37.5			
	National	BELGIUM		77	20	384	100			
	NDS	POLAND		100						
	NDSCh	POLAND				200				
	CHE	SWITZERLAND				760	200			
	NDS	NETHERLANDS		150		384				
	National	CZECH REPUBLIC		200						
	National	HUNGARY		190		380				
	Malaysi a OEL	MALAYSIA		188	50					Skin notation
	National	ESTONIA		192	50	384	100			
	National	LATVIA		50	14	150	40			
	National	CZECH REPUBLIC	C			500				
	National	SLOVAKIA	C			384				
	National	SLOVAKIA		192	50					
	National	SLOVENIA		192	50	384	100			
	National	UNITED KINGDOM		191	50	384	100			
	National	BULGARIA		192.0	50	384.0	100			
	National	ROMANIA		192	50	384	100			
	TUR	TURKEY		192	50	384	100			
	National	LITHUANIA		192	50	384	100			
	National	CROATIA		192	50	384	100			
n-butyl acetate	SUVA	None		480	100	960	200			
	National	SWEDEN		500	100	700	150			SWEDEN, Short-term value, 15 minutes average value
	NDS	None		200						
	NDSCh	None		950						
	ACGIH	None			50		150			Eye and URT irr
	National	NORWAY		710	150	1420	300			
	DFG	GERMANY	C			960	200			
	ACGIH				50		150			eye and upper respiratory tract irritation (listed under Butyl acetates, all isomers)

	National SWEDEN		500	100			
	National FRANCE		710	150	940	200	
	National SPAIN		724	150	965	200	
	National GREECE		710	150	950	200	
	National DENMARK		710	150			
	National FINLAND		720	150	960	200	
	National GERMANY		300	62			
	National PORTUGAL			150		200	
	National BELGIUM		723	150	964	200	
	NDS POLAND		240				
	NDSch POLAND				720		
	CHE SWITZERLAND				960	200	
	National CZECH REPUBLIC		950				
	National HUNGARY		950		950		
	Malaysi a OEL MALAYSIA		713	150			
	National LATVIA		200				
	National CZECH REPUBLIC	C			1200		
	National SLOVAKIA	C			700		
	National SLOVAKIA		500	100			
	National SLOVENIA		480	100	480	100	
	National UNITED KINGDOM		724	150	966	200	
	National BULGARIA		710		950		
	National ROMANIA		715	150	950	200	
	National CROATIA		724	150	966	200	
	National BELGIUM		238	50	712	150	
	National SLOVENIA		300	62	600	124	
ethyl acetate	SUVA None		1400	400	2800	800	
	National SWEDEN		500	150	1100	300	SWEDEN, Short-term value, 15 minutes average value
	National FINLAND		1100	300	1800	500	
	National NORWAY		550	150			
	NDS None		200				
	NDSch None		600				
	ACGIH None			400			URT and eye irr
	National NORWAY		540	150	1080	300	
	DFG GERMANY	C			1500	400	
	ACGIH			400			eye and upper respiratory tract irritation
	National SWEDEN		500	150			
	National FRANCE		1400	400			
	National SPAIN		734	200	1468	400	
	National GREECE		734	200	1468	400	
	National DENMARK		540	150			
	National FINLAND		730	200	1470	400	
	National GERMANY		730	200			
	National PORTUGAL			400			
	National NORWAY		734	200	917.5	250	
	National BELGIUM		1461	400			
	NDS POLAND		734				
	NDSch POLAND				1468		

	CHE	SWITZERLAND			1460	400	
	NDS	NETHERLANDS	734		1468		
	National	CZECH REPUBLIC	700				
	National	HUNGARY	734		1468		
	Malaysi a OEL	MALAYSIA	1440	400			
	National	ESTONIA	500	150	1100	300	
	National	LATVIA	200	54	1468	400	
	National	CZECH REPUBLIC			900		
	National	SLOVAKIA			1100		
	National	SLOVAKIA	734	200			
	National	SLOVENIA	1400	400	1400	400	
	National	UNITED KINGDOM	734	200	1468	400	
	National	BULGARIA	734	200	1468	400	
	National	ROMANIA	400	111	500	139	
	National	LITHUANIA	500	150			
	National	LITHUANIA			1100	300	
	National	CROATIA	734	200	1468	400	
	National	PORTUGAL	734	200	1468	400	
	National	BELGIUM	734	200	1468	400	
	National	SLOVENIA	734	200	1468	400	
acetone	SUVA	None	1200	500	2400	1000	
	National	SWEDEN	600	250	1200	500	SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND	1200	500	1500	630	
	National	NORWAY	295	125			
	NDS	None	600				
	NDSch	None	1800				
	National	NORWAY	600	250	1200	500	
	EU	None	1210	500			
	ACGIH	None		250		500	A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY			2400	1000	
	ACGIH			250		500	A4 - Not Classifiable as a Human Carcinogen;CNS impairment;eye and upper respiratory tract irritation
	National	SWEDEN	600	250			
	National	FRANCE	1210	500	2420	1000	
	National	SPAIN	1210	500			
	National	GREECE	1780		3560		
	National	DENMARK	600	250			
	National	GERMANY	1200	500			
	National	PORTUGAL	1210	500		750	
	National	NORWAY	295	125	368.75	156.25	
	National	BELGIUM	1210	500	2420	1000	
	NDS	POLAND	600				
	NDSch	POLAND			1800		
	CHE	SWITZERLAND			2400	1000	
	NDS	NETHERLANDS	1210		2420		
	National	CZECH REPUBLIC	800				



	National	HUNGARY		1210		2420		
	Malaysi a OEL	MALAYSIA		1187	500			
	National	ESTONIA		1210	500			
	National	LATVIA		1210	500			
	National	CZECH REPUBLIC	C			1500		
	National	SLOVAKIA		1210	500			
	National	SLOVENIA		1210	500			
	National	UNITED KINGDOM		1210	500	3620	1500	
	National	BULGARIA		600		1400		
	National	ROMANIA		1210	500			
	TUR	TURKEY		1210	500			
	National	LITHUANIA		1210	500	2420	1000	
	National	CROATIA		1210	500			
	EU			1210	500			Indicative
	National	SLOVENIA		1210	500	2420	1000	
butanone	DFG	GERMANY	C			600	200	
	ACGIH				200		300	CNS and PNS impairment; upper respiratory tract irritation;
	National	SWEDEN		150	50			
	National	FRANCE		600	200	900	300	
	National	SPAIN		600	200	900	300	
	National	GREECE		600	200	900	300	
	National	DENMARK		145	50			
	National	FINLAND				300	100	
	National	GERMANY		600	200			
	National	PORTUGAL		600	200	900	300	
	National	NORWAY		220	75	275	112.5	
	National	BELGIUM		600	200	900	300	
	NDS	POLAND		450				
	NDSch	POLAND				900		
	CHE	SWITZERLAND				590	200	
	NDS	NETHERLANDS		590		900		
	National	CZECH REPUBLIC		600				
	National	HUNGARY		600		900		
	Malaysi a OEL	MALAYSIA		590	200			
	National	ESTONIA		600	200	900	300	
	National	LATVIA		200	67	900	300	
	National	CZECH REPUBLIC	C			900		
	National	SLOVAKIA	C			900		
	National	SLOVAKIA		600	200			
	National	SLOVENIA		600	200	900	300	
	National	UNITED KINGDOM		600	200	899	300	
	National	BULGARIA		590		885		
	National	ROMANIA		600	200	900	300	
	TUR	TURKEY		600	200	900	300	
	National	LITHUANIA		600	200	900	300	

ethylbenzene	National CROATIA		600	200	900	300	Indicative	CNS and PNS impairment; upper respiratory tract irritation
	EU		600	200	900	300		
	ACGIH			200		300		
	National SWEDEN		200	50	450	100		SWEDEN, Short-term value, 15 minutes average value
	National FINLAND		220	50	880	200		FINLAND, hud
	National NORWAY		20	5				NORWAY, HK
	EU None		442	100	884	200		Skin
	National NORWAY		217	50	434	100		
	ACGIH None			20				A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
	National POLAND		200		400			
	DFG GERMANY	C			176	40		
	ACGIH			20				A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; upper respiratory tract irritation; kidney damage (nephropathy); cochlear impairment
	National SWEDEN		220	50				
	National FRANCE		88.4	20	442	100		
	National SPAIN		441	100	884	200		
	National GREECE		435	100	545	125		
	National DENMARK		217	50				
	National FINLAND		220	50	880	200		
	National GERMANY		88	20				
	National PORTUGAL		442	100	884	200		
	National NORWAY		20	5	30	10		
	National BELGIUM		442	100	551	125		
	NDS POLAND		200					
	NDSch POLAND				400			
	CHE SWITZERLAND				220	50		
	NDS NETHERLANDS		215		430			
	National CZECH REPUBLIC		200					
National HUNGARY		442		884				
Malaysi a OEL	MALAYSIA	434	100					
National ESTONIA		442	100	884	200			
National LATVIA		442	100	884	200			
National CZECH REPUBLIC	C			500				
National SLOVAKIA	C			884				
National SLOVAKIA		442	100					
National SLOVENIA		442	100	884	200			
National UNITED KINGDOM		441	100	552	125			
National BULGARIA		435		545				
National ROMANIA		442	100	884	200			
TUR TURKEY		442	100	884	200			
National LITHUANIA		442	100	884	200			

styrene	National CROATIA		442	100	884	200	Indicative	Possibility of significant uptake through the skin
	EU		442	100	884	200		
	National BELGIUM		87	20	551	125		
	SUVA None		85	20	170	40		
	National SWEDEN		43	10	86	20		SWEDEN, Short term value, 15 minutes average value
	National FINLAND		86	20	430	100		FINLAND, buller
	National NORWAY		105	25				NORWAY, M
	NDS None		50					
	NDSch None		200					
	ACGIH None			20		40		A4, BEI - CNS impair, URT irr, peripheral neuropathy
	National NORWAY		105	25	105	25		
	DFG GERMANY	C			172	40		
	ACGIH			20		40		A4 - Not Classifiable as a Human Carcinogen; CNS impairment; peripheral neuropathy; upper respiratory tract irritation
	National SWEDEN		43	10				
	National FRANCE		100	23.3	46.6	200		
	National SPAIN		86	20	172	40		
	National GREECE		425	100	1050	250		
	National DENMARK	C			105	25		
	National FINLAND		86	20	430	100		
	National GERMANY		86	20				
National PORTUGAL			20		40			
National NORWAY		105	25	131.25	37.5			
National BELGIUM		108	25	346	80			
NDS POLAND		50						
NDSch POLAND				100				
CHE SWITZERLAND				170	40			
National CZECH REPUBLIC		100						
National HUNGARY		50		50				
Malaysi a OEL	MALAYSIA	85.2	20				Skin notation	
National ESTONIA		90	20	200	50			
National LATVIA		10		30				
National CZECH REPUBLIC	C			400				
National SLOVAKIA	C			200				
National SLOVAKIA		86	20					
National SLOVENIA		86	20	344	80			
National UNITED KINGDOM		430	100	1080	250			
National BULGARIA		85.0		215.0				
National ROMANIA		50	12	150	35			
National LITHUANIA		90	20	200	50			
National LITHUANIA		90	10	200	50			
National CROATIA		430	100	1080	250			
National FRANCE		100	23.3	200	46.6			
National SLOVENIA		86	20	172	40			
4-methylpentan-2-one;	NDS None	83.000						

isobutyl methyl ketone

National SWEDEN			100.000	25.000	200.000	50.000		SWEDEN, Short-term value, 15 minutes average value
National NORWAY			83.000	20	208.000	50.000		HE
NDSCh	None		200.000					
EU	None		83.000	20.000	208.000	50.000		
ACGIH	None			20		75.000		A3, BEI - URT irr, dizziness, headache
National HUNGARY			208.000					
National AUSTRIA			83.000	20.000	208.000	50.000		
ACGIH	None			20.000		75.000		A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans;upper respiratory tract irritation;dizziness; headache
National CROATIA			83	20	208	50		
EU	None		83.000	20	208.000	50.000	Indicative	
DFG	GERMANY	C			166	40		
ACGIH				20		75		A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans;upper respiratory tract irritation;dizziness; headache
National SWEDEN			83	20				
National FRANCE			83	20	208	50		
National SPAIN			83	20	208	50		
National GREECE			410	100	410	100		
National DENMARK			83	20				
National FINLAND			80	20	210	50		
National GERMANY			83	20				
National PORTUGAL			83	20	208	50		
National NORWAY			83	20	208	50		
National BELGIUM			83	20	208	50		
NDS	POLAND		83					
NDSCh	POLAND				200			
CHE	SWITZERLAND				164	40		
NDS	NETHERLANDS		104		208			
National	CZECH REPUBLIC		80					
National HUNGARY			83		208			
Malaysi a	MALAYSIA OEL		205	50				
National ESTONIA			83	20	208	50		
National LATVIA			83	20	208	50		
National	CZECH REPUBLIC	C			200			
National SLOVAKIA		C			166			
National SLOVAKIA			83	20				
National SLOVENIA			83	20	208	50		
National UNITED KINGDOM			208	50	416	100		
National BULGARIA			50		200			
National ROMANIA			83	20	208	50		

1,3,5-trimethylbenzene	TUR	TURKEY		83	20	208	50	Indicative	
	National	LITHUANIA		83	20	208	50		
	EU			83	20	208	50		
	SUVA	None		200	40				
	National	SWEDEN		120	25	170	35		SWEDEN, Short-term value, 15 minutes average value
	National	NORWAY		100	20				
	NDS	None		100					
	NDSCh	None		170					
	EU	None		100	20				
	National	NORWAY		100	20	200	40		
	DFG	GERMANY	C			200	40		
	National	SWEDEN		100	20				
	National	FRANCE		100	20	250	50		
	National	SPAIN		100	20				
	National	GREECE		125	25				
	National	DENMARK		100	20				
	National	FINLAND		100	20				
	National	GERMANY		100	20				
	National	PORTUGAL		100	20				
	National	NORWAY		100	20	125	30		
National	BELGIUM		100	20					
NDS	POLAND		100						
NDSCh	POLAND				170				
NDS	NETHERLANDS				200				
National	CZECH REPUBLIC		100						
National	HUNGARY		100						
National	LATVIA		100	20					
National	CZECH REPUBLIC	C			250				
National	SLOVAKIA	C			200				
National	SLOVAKIA		100	20					
National	SLOVENIA		100	20					
National	BULGARIA		100.0	20					
National	ROMANIA		100	20					
TUR	TURKEY		100	20					
National	LITHUANIA		100	20	150	30			
National	CROATIA		100	20					
EU			100	20			Indicative		
National	SLOVENIA		100	20	200	40			
NDS	None		1200						
National	SWEDEN		800	200	1200	300	SWEDEN, Short-term value, 15 minutes average value		
National	NORWAY		800	200					
NDSCh	None		2000						
National	NORWAY		820	200	1640	400			
EU	None		2085	500					
ACGIH	None			400		500	CNS impair, URT irr		
DFG	GERMANY	C			2100	500			
ACGIH				400		500	CNS impairment (listed under Heptane, all isomers);upper respiratory tract irritation (listed under Heptane, all isomers)		

National SWEDEN	800	200		
National FRANCE	1668	400	2085	500
National SPAIN	2085	500		
National GREECE	2000	500	2000	500
National DENMARK	820	200		
National FINLAND	1200	300	2100	500
National GERMANY	2100	500		
National PORTUGAL	2085	500		500
National NORWAY	800	200	1000	250
National BELGIUM	1664	400	2085	500
NDS POLAND	1200			
NDSch POLAND			2000	
CHE SWITZERLAND			1600	400
NDS NETHERLANDS	1200		1600	
National CZECH REPUBLIC	1000			
National HUNGARY	2000			
Malaysi a OEL MALAYSIA	1640	400		
National ESTONIA	2085	500		
National LATVIA	350	85	2085	500
National CZECH REPUBLIC C			2000	
National SLOVAKIA	2085	500		
National SLOVENIA	2085	500		
National UNITED KINGDOM	2085	500	6255	1500
National BULGARIA	1600			
National ROMANIA	2085	500		
TUR TURKEY	2085	500		
National LITHUANIA	2085	500	3128	750
National CROATIA	2085	500		
EU	2085	500		
National SLOVENIA	2085	500	2085	500
n-hexane DFG GERMANY C			1440	400
ACGIH		50		
National SWEDEN	72	20		
EU	72	20		
National FRANCE	72	20		
National SPAIN	72	20		
National GREECE	72	20		
National DENMARK	72	20		
National FINLAND	72	20		
National GERMANY	180	50		
National PORTUGAL	72	20		
National NORWAY	72	20	108	30
National BELGIUM	72	20		
NDS POLAND	72			
CHE SWITZERLAND			1440	400
NDS NETHERLANDS	72		144	

Indicative

Skin - potential significant contribution to overall exposure by the cutaneous route; CNS impairment; eye irritation; peripheral neuropathy

Indicative

National CZECH REPUBLIC	70					
National HUNGARY	72					
Malaysi a OEL MALAYSIA	176	50				Skin notation
National ESTONIA	72	20				
National LATVIA	72	20				
National CZECH REPUBLIC	C				200	
National SLOVAKIA	C				140	
National SLOVAKIA	20					
National SLOVAKIA	72					
National SLOVENIA	72	20				
National UNITED KINGDOM	72	20		216	60	
National BULGARIA	72.0	20				
National ROMANIA	72	20				
TUR TURKEY	72	20				
National LITHUANIA	72	20				
National CROATIA	72	20				
National SLOVENIA	72	20		576	160	

#### Biological Exposure Index

Component	CAS-No.	Value	UoM	Medium	Biological Indicator	Sampling Period
o-xylene	1330-20-7	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn
toluene	108-88-3	0,02	mg/L	Blood	Toluene	Before last turn of the working week
		0,03	mg/L	Urine	Toluene	End of turn
		0,3	MGGCREAT	Urine	O-Cresol	End of turn
acetone	67-64-1	25	mg/L	Urine	Acetone	End of turn
butanone	78-93-3	2	mg/L	Urine	MEK	End of turn
ethylbenzene	100-41-4	0,15	GGCREAT	Urine	Mandelic acid and fenilgliossalico	End of turn
styrene	100-42-5	400	MGGCREAT	Urine	Mandelic acid and fenilgliossalico	End of turn
		40	µg/L	Urine	Styrene venous	End of turn
4-methylpentan-2-one; isobutyl methyl ketone	108-10-1	1	mg/L	Urine	MIBK	End of turn
n-hexane	110-54-3	0,4	mg/L	Urine	Hexanedione	End of turn; End of working week
		0,5	mg/L	Urine	Hexanedione	End of turn

#### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
o-xylene	1330-20-7	0.327 mg/l	Fresh Water		
		0.327 mg/l	Marine water		
		12.46 mg/kg	Freshwater sediments		
		12.46 mg/kg	Marine water sediments		
		2.31 mg/kg	Soil		
		6.58 mg/l	Microorganisms in sewage treatments		
		0.32 mg/l	Intermittent release		
toluene	108-88-3	mg/kg	Freshwater		PNEC

			sediments		
		mg/kg	Soil		PNEC
		mg/kg	Marine water sediments		PNEC
		mg/l	Fresh Water		PNEC
		mg/l	Marine water		PNEC
		mg/l	Intermittent release		PNEC
		mg/l	Microorganisms in sewage treatments		
n-butyl acetate	123-86-4	1.18 mg/l	Fresh Water		
		0.018 mg/l	Marine water		
		0.981 mg/kg	Freshwater sediments		
		0.0981 mg/kg	Marine water sediments		
		0.36 mg/l	Intermittent release		
		0.0903 mg/kg	Soil		
ethyl acetate	141-78-6	0.26 mg/l	Fresh Water		PNEC
		0.026 mg/l	Marine water		PNEC
		1.65 mg/l	Intermittent release		PNEC
		1.25 mg/kg	Freshwater sediments		PNEC
		0.125 mg/kg	Marine water sediments		PNEC
		0.24 mg/kg	Soil		PNEC
acetone	67-64-1	200 mg/kg	Oral		PNEC
		30.4 mg/kg	Freshwater sediments		
		3.04 mg/kg	Marine water sediments		
		10.6 mg/l	Fresh Water		
		1.06 mg/l	Marine water		
		29.5 mg/l	Soil		
		100 mg/l	Microorganisms in sewage treatments		
butanone	78-93-3	284.74 mg/kg	Freshwater sediments		
		284.7 mg/kg	Marine water sediments		
		55.8 mg/l	Fresh Water		
4-methylpentan-2-one; isobutyl methyl ketone	108-10-1	0.6 mg/l	Fresh Water		
		0.06 mg/l	Marine water		
		1.3 mg/kg	Soil		
		8.27 mg/kg	Freshwater sediments		
		0.83 mg/kg	Marine water sediments		
		1.5 mg/l	Intermittent release		

**Derived No Effect Level. (DNEL)**

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
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o-xylene	1330-20-7	289 mg/m3	174 mg/m3	Human Inhalation	Short Term, local effects	
		289 mg/m3	174 mg/m3	Human Inhalation	Short Term, systemic effects	
		180 mg/kg	108 mg/kg	Human Dermal	Long Term, systemic effects	
		77 mg/m3	14.8 mg/m3	Human Inhalation	Long Term, systemic effects	
toluene	108-88-3		1.6 mg/kg	Human Oral	Long Term, systemic effects	
		384 mg/m3	226 mg/kg	Human Dermal	Long Term, systemic effects	
		192 mg/m3	mg/m3	Human Inhalation	Long Term, systemic effects	
			mg/kg	Human Oral	Long Term, systemic effects	
n-butyl acetate	123-86-4		226 mg/kg	Human Dermal	Long Term, systemic effects	
		384 mg/m3		Human Inhalation	Short Term, systemic effects	
		960 mg/m3		Human Inhalation	Short Term, systemic effects	
		960 mg/m3		Human Inhalation	Short Term, local effects	
ethyl acetate	141-78-6	480 mg/m3		Human Inhalation	Long Term, systemic effects	
		480 mg/m3		Human Inhalation	Long Term, local effects	
			859.7 mg/m3	Human Inhalation	Short Term, systemic effects	
			859.7 mg/m3	Human Inhalation	Short Term, local effects	
			102.34 mg/m3	Human Inhalation	Long Term, systemic effects	
			102.34 mg/m3	Human Inhalation	Long Term, local effects	
ethyl acetate	141-78-6	1468 mg/m3		Human Inhalation	Short Term, systemic effects	DNEL
			4.5 mg/kg	Human Oral	Long Term, systemic effects	DNEL
			367 mg/m3	Human Inhalation	Long Term, local effects	DNEL
		1468 mg/m3		Human Inhalation	Short Term, local effects	DNEL
		63 mg/kg		Human Dermal	Long Term, systemic effects	DNEL
		734 mg/m3		Human Inhalation	Long Term, systemic effects	DNEL
		734 mg/m3		Human Inhalation	Long Term, local effects	DNEL
	734 mg/m3	Human Inhalation	Short Term, systemic effects	DNEL		
	734 mg/m3	Human Inhalation	Short Term, local effects	DNEL		

			37 mg/kg	Human Dermal	Long Term, systemic effects	DNEL
			367 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects	DNEL
acetone	67-64-1	186 mg/kg		Human Dermal	Long Term, systemic effects	
		2420 mg/m <sup>3</sup>		Human Inhalation	Short Term, systemic effects	
		1210 mg/m <sup>3</sup>		Human Inhalation	Long Term, systemic effects	
			62 mg/kg	Human Oral	Long Term, systemic effects	
			62 mg/kg	Human Dermal	Long Term, systemic effects	
			200 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects	
		2420 mg/m <sup>3</sup>		Human Inhalation	Short Term, local effects	
butanone	78-93-3	1161 mg/kg		Human Dermal	Long Term, systemic effects	
		600 mg/m <sup>3</sup>		Human Inhalation	Long Term, systemic effects	
			412 mg/kg	Human Dermal	Long Term, systemic effects	
			106 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects	
			31 mg/kg	Human Oral	Long Term, systemic effects	
4-methylpentan-2-one; isobutyl methyl ketone	108-10-1	208 mg/m <sup>3</sup>	155.2 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects	
		208 mg/m <sup>3</sup>	155.2 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects	
		11.8 mg/kg	4.2 mg/kg	Human Dermal	Long Term, systemic effects	
		83 mg/m <sup>3</sup>	14.7 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects	
			4.2 mg/kg	Human Oral	Long Term, systemic effects	

## 8.2. Exposure controls

### Eye protection:

Use close fitting safety goggles, don't use eye lens.

### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

### Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

### Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use adequate protective respiratory equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: liquid

Color: Black

Odour: Characteristic

Odour threshold:

Melting point / freezing point: Not available

Initial boiling point and boiling range: 35.1 °C (95.2 °F)

Flammability: The product is classified Flam. Liq. 2 H225

Upper/lower flammability or explosive limits: Not available

Flash point: 12 °C (54 °F)

Auto-ignition temperature: 245.00 °C

Decomposition temperature: Not available

pH: Not available

Viscosity: Not available

Kinematic viscosity: <= 20,5 mm<sup>2</sup>/sec (40 °C) mm<sup>2</sup>/s

Solubility in water: Insoluble

Solubility in oil: Not available

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available

Relative density: 0.93 g/cm<sup>3</sup>

Vapour density: Not available

#### Particle characteristics:

Particle size: Not available

### 9.2. Other information

Miscibility: Not available

Conductivity: Not available

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicological information of the mixture:

- |                                      |  |
|--------------------------------------|--|
| a) acute toxicity                    | Not classified   |
|                                      | Based on available data, the classification criteria are not met |
|                                      | LC50 Inhalation > 20.00000 mg/l                                  |
|                                      | LD50 Skin > 2000.00000 mg/kg                                     |
| b) skin corrosion/irritation         | The product is classified: Skin Irrit. 2(H315)                   |
| c) serious eye damage/irritation     | The product is classified: Eye Irrit. 2(H319)                    |
| d) respiratory or skin sensitisation | Not classified   |

	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Repr. 2(H361)
h) STOT-single exposure	The product is classified: STOT SE 3(H336)
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)
j) aspiration hazard	The product is classified: Asp. Tox. 1(H304)

**Toxicological information on main components of the mixture:**

o-xylene	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Vapour Rat = 26 mg/l 4h LD50 Skin Rabbit = 4350 mg/kg LD50 Skin Rabbit > 4350 mg/kg LC50 Inhalation Rat = 29.08 mg/l 4h LD50 Oral Rat = 3500 mg/kg
	e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000 ppm
	f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg NOAEL Oral Rat = 1000 mg/kg
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm
toluene	a) acute toxicity	LD50 Oral Rat = 5580.00000 mg/kg LD50 Skin Rabbit = 12124.00000 mg/kg LC50 Inhalation Rat = 12.50000 mg/l 4h
	g) reproductive toxicity	NOAEC Rat = 1200.00000 ppm NOAEL Rat = 2000.00000 ppm
hydrocarbons C9 aromatics	a) acute toxicity	LD50 Skin Rabbit > 2000 mg/kg  LD50 Oral Rat = 3492.00000 mg/kg LC50 Inhalation Vapour Rat = 6193.00000 mg/m3
n-butyl acetate	a) acute toxicity	LC50 Inhalation Rat = 21.1 mg/l 4h LD50 Oral Rat > 6400 mg/kg LD50 Skin Rabbit > 5000 mg/kg LD50 Skin Rabbit > 17600 mg/kg LC50 Inhalation Rat = 390 ppm 4h LD50 Oral Rat = 10768 mg/kg
	g) reproductive toxicity	NOAEC = 2000 ppm
ethyl acetate	a) acute toxicity	LC50 Inhalation Rat = 1600 mg/l LD50 Oral Rabbit = 4935 mg/kg LD50 Oral Rat = 11.3 g/kg LD50 Skin Rabbit > 20000 mg/kg LD50 Oral Mouse = 4100 mg/kg LC50 Inhalation Rat = 4000.00000 ppm 4h
acetone	a) acute toxicity	LD50 Oral Rat = 5800 mg/kg LD50 Skin Rabbit = 20000 mg/kg LC50 Inhalation Rat = 76 mg/l 4h LC50 Inhalation Rat = 50100.00000 mg/m3 8h
butanone	a) acute toxicity	LC50 Inhalation Mouse 40 mg/l LD50 Oral Rat = 3460.00000 mg/kg

		LD50 Skin Rabbit = 6480 mg/kg LC50 Inhalation Vapour Rat = 5 mg/l 1h
ethylbenzene	a) acute toxicity	LD50 Skin Rabbit = 5000 mg/kg LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17.40000 mg/l 4h
styrene	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LC50 Inhalation Rat = 11.70000 mg/l 4h LD50 Skin Rat > 2000.00000 mg/kg
4-methylpentan-2-one; isobutyl methyl ketone	a) acute toxicity	LC50 Inhalation Rat > 8.2 mg/l 4h
		LD50 Oral Rat = 2080 mg/kg LD50 Skin Rat > 2000 mg/kg LD50 Skin Rabbit = 3000 mg/kg LC50 Inhalation Rat = 8.2 mg/l 4h LD50 Oral Rat = 2080 mg/kg LC50 Inhalation Rat 2000 ppm 4h NOAEL Inhalation Rat = 250 mg/kg
	i) STOT-repeated exposure	
1,3,5-trimethylbenzene	a) acute toxicity	LC50 Inhalation Rat = 24 g/m <sup>3</sup> 4h
heptane; n-heptane	a) acute toxicity	LD50 Skin Rabbit = 3000 mg/kg LC50 Inhalation Rat = 103 g/m <sup>3</sup> 4h LD50 Oral Mouse = 5000 mg/kg
n-hexane	a) acute toxicity	LD50 Skin Rabbit = 3000.00000 mg/kg

## 11.2 Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

#### List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
o-xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 165 mg/L 48  a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 2.2 mg/L 72 c) Bacteria toxicity : EC50 = 96 mg/L 24 b) Aquatic chronic toxicity : NOEC Fish > 1.3 mg/L b) Aquatic chronic toxicity : NOEC Daphnia = 1.57 mg/L a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13.4 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 2.661 mg/L 96h

EPA

		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 13.5 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13.1 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 7.711 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23.53 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 30.26 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia water flea = 3.82 mg/L 48h
		a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0.6 mg/L 48h
toluene	CAS: 108-88-3 - EINECS: 203-625-9 - INDEX: 601-021-00-3	a) Aquatic acute toxicity : EC50 Algae = 134.00000 mg/L 3
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata > 433.00000 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish = 5.50000 mg/L 96h
hydrocarbons C9 aromatics	CAS: 64742-95-6, 128601-23-0 - EINECS: 265-199-0 - INDEX: 649-356-00-4	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 9.22 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 21.30000 mg/L 48h IUCLID
n-butyl acetate	CAS: 123-86-4 - EINECS: 204-658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish = 18 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 44 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae = 675 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 100 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 17 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 674.7 mg/L 72h IUCLID
ethyl acetate	CAS: 141-78-6 - EINECS: 205-500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity : LC50 Algae = 3300.00000 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish = 230.00000 mg/L 96
		b) Aquatic chronic toxicity : LC50 Algae = 5600.00000 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 220.00000 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 484.00000 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 560.00000 mg/L 48h EPA
acetone	CAS: 67-64-1 - EINECS: 200-662-2 - INDEX: 606-001-00-8	a) Aquatic acute toxicity : EC50 Daphnia = 8800.00000 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish = 5540 mg/L 96h
		a) Aquatic acute toxicity : EC50 Algae = 302 mg/L 96h

butanone	CAS: 78-93-3 - EINECS: 201- 159-0 - INDEX: 606-002-00-3	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 3130.00000 mg/L 96h EPA  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 5091.00000 mg/L 48h IUCLID
4-methylpentan-2-one; isobutyl methyl ketone	CAS: 108-10-1 - EINECS: 203- 550-1 - INDEX: 606-004-00-4	a) Aquatic acute toxicity : LC50 Fish > 179 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia > 200 mg/L 48 b) Aquatic chronic toxicity : NOEC Daphnia = 30 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 496 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 170 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 400 mg/L 96h IUCLID
1,3,5-trimethylbenzene	CAS: 108-67-8 - EINECS: 203- 604-4 - INDEX: 601-025-00-5	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 3.48 mg/L 96h
heptane; n-heptane	CAS: 142-82-5 - EINECS: 205- 563-8 - INDEX: 601-008-00-2	a) Aquatic acute toxicity : LC50 Fish = 375 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia = mg/L 48 a) Aquatic acute toxicity : LC50 Algae = mg/L 72 a) Aquatic acute toxicity : LC50 Fish Cichlid fish = 375 mg/L 96h
n-hexane	CAS: 110-54-3 - EINECS: 203- 777-6 - INDEX: 601-037-00-0	a) Aquatic acute toxicity : EL50 Daphnia = 21.85000 mg/L 48h  a) Aquatic acute toxicity : LC50 Algae = 9.28500 mg/L 72h a) Aquatic acute toxicity : LC50 Fish = 12.51000 mg/L 96h

## 12.2. Persistence and degradability

Component	Persitence/Degradability:
toluene	Readily biodegradable
acetone	Readily biodegradable
n-hexane	Readily biodegradable

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

## 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## 12.7 Other adverse effects

Not available

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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## **SECTION 14: Transport information**

### **14.1. UN number or ID number**

1263

### **14.2. UN proper shipping name**

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

### **14.3. Transport hazard class(es)**

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

### **14.4. Packing group**

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### **14.5. Environmental hazards**

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

### **14.6. Special precautions for user**

Road and Rail ( ADR-RID ) :

ADR-Label: 3

ADR-Hazard identification number: 33

ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air ( IATA ) :

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3 A72 A192

Sea ( IMDG ) :

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 367

IMDG-EMS: F-E, S-E

### **14.7. Maritime transport in bulk according to IMO instruments**

Not Applicable



## SECTION 15: Regulatory information

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

VOC (2004/42/EC) : 600 g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Products belongs to category P5c	5000	50000

### Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 48, 75

### SVHC Substances:

SVHC substances not present in a concentration  $\geq 0.1\%$  (w/w)

### German Water Hazard Class (WGK)

2

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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## SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

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.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity – single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity – repeated exposure, Category 1
3.9/2	STOT RE 2	Specific target organ toxicity – repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/2	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.7/2	Calculation method
3.8/3	Calculation method
3.9/2	Calculation method
3.10/1	Calculation method
4.1/C3	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand  
COV: Volatile Organic Compound  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: KAFH  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.