

**Safety Data Sheet
UNIVERSAL TRAY ADHESIVE****Revision nr. 6
Dated 01/03/2021****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Mixture identification:

Product Name: UNIVERSAL TRAY ADHESIVE

Code: C700025

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

For professional use only. Adhesive for dental impression silicones.

Avoid use: in article for supply to, or use by, the general public.

1.3. Details of the supplier of the safety data sheet

Name

Zhermack S.p.a

Via Bovazecchino 100

45021 Badia Polesine (RO)

Italy

tel. +39 0425-597611

fax +39 0425-597689

Competent person responsible for the safety data sheet:

msds@zhermack.com

1.4. Emergency telephone number

UK Emergency number: 999 (24 hours)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

EC regulation criteria 1272/2008 (CLP)



Warning, Flam. Liq. 3, Flammable liquid and vapour.



Warning, Skin Irrit. 2, Causes skin irritation.



Warning, Eye Irrit. 2, Causes serious eye irritation.



Warning, Repr. 2, Suspected of damaging fertility or the unborn child.



Warning, STOT SE 3, May cause respiratory irritation.



Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The Regulation EC 1272/2008, on classification, labelling and packaging of substances and mixtures (CLP), shall not apply to a medical device in the finished state used in direct physical contact with the human body according to art. 1.5, letter d). Therefore the product is exempted from the CLP labeling requirements.

Hazard pictograms:



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Warning

Hazard statements:

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/clothing and eye/face protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical advice/attention if you feel unwell.

Special Provisions:

None

Contains

- xylene
- toluene
- ethylbenzene

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards










SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable
















3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
≥ 20% - < 30%	xylene	Index number: 601-022-00-9	 3.8/3 STOT SE 3 H335
		CAS: 1330-20-7	 3.9/2 STOT RE 2 H373
		EC: 215-535-7	 3.10/1 Asp. Tox. 1 H304
		REACH No.: 01-21194882	 2.6/3 Flam. Liq. 3 H226
		16-32-XXXX	 3.1/4/Dermal Acute Tox. 4 H312
			 3.1/4/Inhal Acute Tox. 4 H332
			 3.2/2 Skin Irrit. 2 H315
		 3.3/2 Eye Irrit. 2 H319	
≥ 10% -	toluene	Index 601-021-00-3	 3.7/2 Repr. 2 H361d

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< 20%		number: CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-21194713 10-51-XXXX	 3.8/3 STOT SE 3 H336  3.9/2 STOT RE 2 H373  3.10/1 Asp. Tox. 1 H304  2.6/2 Flam. Liq. 2 H225  3.2/2 Skin Irrit. 2 H315
>= 10% - < 20%	ethylbenzene	Index number: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4	 3.9/2 STOT RE 2 H373  3.10/1 Asp. Tox. 1 H304 4.1/C3 Aquatic Chronic 3 H412  2.6/2 Flam. Liq. 2 H225  3.1/4/Inhal Acute Tox. 4 H332
>= 0,5% - < 1%	(2-methoxymethylethoxy)propanol	CAS: 34590-94-8 EC: 252-104-2 REACH No.: 01-21194500 11-60-XXXX	Substance with a Union workplace exposure limit.
>= 0,3% - < 0,5%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9	 3.7/2 Repr. 2 H361d  3.8/3 STOT SE 3 H336  3.9/2 STOT RE 2 H373  3.10/1 Asp. Tox. 1 H304  2.6/2 Flam. Liq. 2 H225  3.2/2 Skin Irrit. 2 H315

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 off 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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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:

None

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media:

CO₂ or Dry chemical fire extinguisher.

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.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use localized ventilation system.

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

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product.

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:

See section 10.5.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

See section 1.2.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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xylylene - CAS: 1330-20-7

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
TLV	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min		ROMANIA
MAK	435 mg/m ³	100 ppm	8h	870 mg/m ³	200 ppm	15min		SWITZERLAND
RV	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min		LATVIA
TLV-ACGIH		100 ppm	8h		150 ppm	15min		
MAK	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	AUSTRIA
VLEP	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	BELGIUM
TLV	221 mg/m ³		8h	442 mg/m ³		15min	Skin	BULGARIA
TLV	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	CYPRUS
TLV	200 mg/m ³		8h	400 mg/m ³		15min	Skin	CZECH REPUBLIC
AGW	440 mg/m ³	100 ppm	8h	880 mg/m ³	200 ppm	15min	Skin	GERMANY
MAK	440 mg/m ³	100 ppm	8h	880 mg/m ³	200 ppm	15min	Skin	GERMANY
VLA	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	SPAIN
TLV	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	ESTONIA
EU	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm		Skin	
VLEP	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	FRANCE
HTP	220 mg/m ³	50 ppm	8h	440 mg/m ³	100 ppm	15min	Skin	FINLAND
TLV	435 mg/m ³	100 ppm	8h	650 mg/m ³	150 ppm	15min		GREECE
AK	221 mg/m ³		8h	442 mg/m ³		15min	Skin	HUNGARY
GVI/KGVI	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	CROATIA
VLEP	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	ITALY
OELV	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	IRELAND
TLV	108 mg/m ³	25 ppm	8h				Skin	NORWAY
TGG	210 mg/m ³		8h	442 mg/m ³		15min	Skin	NETHERLANDS
NDS/NDSch	100		8h					POLAND

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	mg/m ³							
NGV/KGV	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	SWEDEN
NPEL	221 mg/m ³	50 ppm	8h	442 mg/m ³		15min	Skin	SLOVAKIA (Slovak Republic)
MV	221 mg/m ³	50 ppm	8h				Skin	SLOVENIA
ESD	221 mg/m ³	50 ppm	8h	442 mg/m ³	100 ppm	15min	Skin	TURKEY
WEL	220 mg/m ³	50 ppm	8h	441 mg/m ³	100 ppm	15min	Skin	UNITED KINGDOM
ACGIH		100 ppm	8h		150 ppm		A4, BEI - URT and eye irr, CNS impair	

toluene - CAS: 108-88-3

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
AGW	190 mg/m ³	50 ppm	8h	760 mg/m ³	200 ppm	15min	Skin	GERMANY
MAK	190 mg/m ³	50 ppm	8h	760 mg/m ³	200 ppm	15min	Skin	SWITZERLAND
MV	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	SLOVENIA
VME/VLE	190 mg/m ³	50 ppm	8h	760 mg/m ³	200 ppm	15min	Skin	SWITZERLAND
AK	190 mg/m ³		8h	380 mg/m ³		15min	Skin	HUNGARY
GVI/KGVI	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	CROATIA
HTP	81 mg/m ³	25 ppm	8h	380 mg/m ³	100 ppm	15min	Skin	FINLAND
MAK	190 mg/m ³	50 ppm	8h	380 mg/m ³	100 ppm	15min	Skin	AUSTRIA
NDS/NDSch	100 mg/m ³		8h	200 mg/m ³		15min	Skin	POLAND
NGV/KGV	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	SWEDEN
NPEL	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	SLOVAKIA (Slovak Republic)
EU	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm		Skin	
OELV	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	IRELAND
RD	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	LITHUANIA
RV	50 mg/m ³	14 ppm	8h	150 mg/m ³	40 ppm	15min	Skin	LATVIA
TGG	150		8h	384		15min		NETHERLAND

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	mg/m3			mg/m3				DS
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	GREECE
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	ESTONIA
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	MALTA
TLV	94 mg/m3	25 ppm	8h				Skin	NORWAY
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	ROMANIA
TLV	200 mg/m3	53.2 ppm	8h	500 mg/m3	133 ppm	15min	Skin	CZECH REPUBLIC
TLV	94 mg/m3	25 ppm	8h				Skin	DENMARK
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	BULGARIA
TLV-ACGIH	75.4 mg/m3	20 ppm	8h					
VL	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	LUXEMBOUR G
VLE	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	PORTUGAL
VLEP	76.8 mg/m3	20 ppm	8h	384 mg/m3	100 ppm	15min	Skin	FRANCE
VLEP	192 mg/m3	50 ppm	8h				Skin	ITALY
VLEP	77 mg/m3	20 ppm	8h	384 mg/m3	100 ppm	15min	Skin	BELGIUM
WEL	191 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	UNITED KINGDOM
VLA	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	SPAIN
MAK	190 mg/m3	50 ppm	8h	760 mg/m3	200 ppm	15min	Skin	GERMANY
ACGIH		20 ppm	8h				A4, BEI - Visual impair, female repro, pregnancy loss	

ethylbenzene - CAS: 100-41-4

OEL Type	TWA		Duratio n	STEL		Duratio n	Notes	Country
AGW	88 mg/m3	20 ppm	8h	176 mg/m3	40 ppm	15min		GERMANY
MAK	435 mg/m3	100 ppm	8h	435 mg/m3	100 ppm	15min		SWITZERLA ND
AK	442 mg/m3		8h	884 mg/m3		15min		HUNGARY
ESD	442	100	8h	884	200	15min		TURKEY

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	mg/m3	ppm		mg/m3	ppm			
HTP	220 mg/m3	50 ppm	8h	880 mg/m3	200 ppm	15min		FINLAND
MAK	440 mg/m3	100 ppm	8h	880 mg/m3	200 ppm	15min		AUSTRIA
NDS/NDSch	200 mg/m3		8h	400 mg/m3		15min		POLAND
NGV/KGV	220 mg/m3	50 ppm	8h	884 mg/m3	200 ppm	15min		SWEDEN
EU	442 mg/m3	100 ppm	8h	884 mg/m3	200 ppm		Skin	
OELV	442 mg/m3	100 ppm	8h	884 mg/m3	200 ppm	15min		IRELAND
RV	442 mg/m3	100 ppm	8h	884 mg/m3	200 ppm	15min		LATVIA
TLV	442 mg/m3	100 ppm	8h	884 mg/m3	200 ppm	15min		ROMANIA
TLV	217 mg/m3	50 ppm	8h	434 mg/m3	100 ppm	15min		DENMARK
VLEP	88.4 mg/m3	20 ppm	8h	442 mg/m3	100 ppm	15min		FRANCE
VLEP	442 mg/m3	100 ppm	8h	884 mg/m3	200 ppm	15min		ITALY
VLEP	87 mg/m3	20 ppm	8h	551 mg/m3	125 ppm	15min	Skin	BELGIUM
WEL	441 mg/m3	100 ppm	8h	552 mg/m3	125 ppm	15min		UNITED KINGDOM
VLA	441 mg/m3	100 ppm	8h	884 mg/m3	200 ppm	15min		SPAIN
TLV	215 mg/m3		8h	430 mg/m3		15min		NETHERLAN DS
TLV-ACGIH		20 ppm	8h				A3, BEI - URT irr, kidney dam (nephropat hy), cochlear impair	
ACGIH		20 ppm	8h				A3, BEI - URT irr, kidney dam (nephropat hy), cochlear impair	

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

OEL Type	TWA		Duratio n	STEL		Duratio n	Notes	Country
MV	308 mg/m3	50 ppm	8h					SLOVENIA
MAK	300	50 ppm	8h	300	50 ppm	15min		SWITZERLA

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	mg/m3			mg/m3				ND
VME/VLE	300 mg/m3	50 ppm	8h	300 mg/m3	50 ppm	15min		SWITZERLAND
AK	308 mg/m3		8h					HUNGARY
ESD	308 mg/m3	50 ppm	8h					TURKEY
GVI/KGVI	308 mg/m3	50 ppm	8h					CROATIA
HTP	310 mg/m3	50 ppm	8h					FINLAND
LV	308 mg/m3	50 ppm	8h					LUXEMBOURG
MAK	307 mg/m3	50 ppm	8h	614 mg/m3	100 ppm	15min		AUSTRIA
NDS/NDSch	240 mg/m3		8h	480 mg/m3		15min		POLAND
NGV/KGV	300 mg/m3	50 ppm	8h	450 mg/m3	75 ppm	15min		SWEDEN
NPEL	308 mg/m3	50 ppm	8h					SLOVAKIA (Slovak Republic)
EU	308 mg/m3	50 ppm	8h				Skin	
OELV	308 mg/m3	50 ppm	8h					IRELAND
RD	300 mg/m3	50 ppm	8h	450 mg/m3	75 ppm	15min		LITHUANIA
RV	308 mg/m3	50 ppm	8h					LATVIA
TGG	300 mg/m3		8h					NETHERLANDS
TLV	600 mg/m3	100 ppm	8h	900 mg/m3	150 ppm	15min		GREECE
TLV	300 mg/m3	50 ppm	8h	450 mg/m3	75 ppm	15min		ESTONIA
TLV	308 mg/m3	50 ppm	8h					MALTA
TLV	300 mg/m3	50 ppm	8h					NORWAY
TLV	308 mg/m3	50 ppm	8h					ROMANIA
TLV	270 mg/m3	44.55 ppm	8h	550 mg/m3	90.75 ppm	15min		CZECH REPUBLIC
TLV	309 mg/m3	50 ppm	8h					DENMARK
TLV	308 mg/m3	50 ppm	8h					CYPRUS
TLV	308 mg/m3	50 ppm	8h					BULGARIA
VLE	308 mg/m3	50 ppm	8h					PORTUGAL
VLEP	308 mg/m3	50 ppm	8h					FRANCE

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VLEP	308 mg/m3	50 ppm	8h				Skin	ITALY
VLEP	308 mg/m3	50 ppm	8h					BELGIUM
WEL	308 mg/m3	50 ppm	8h					UNITED KINGDOM
VLA	308 mg/m3	50 ppm	8h					SPAIN
MAK	310 mg/m3	50 ppm	8h	310 mg/m3	50 ppm	15min		GERMANY
AGW	310 mg/m3	50 ppm	8h	310 mg/m3	50 ppm	15min		GERMANY
ACGIH		100 ppm	8h		150 ppm		Skin - Eye and URT irr, CNS impair	

toluene - CAS: 108-88-3

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
MAK	190 mg/m3	50 ppm	8h	380 mg/m3	100 ppm	15min	Skin	AUSTRIA
TLV	94 mg/m3	25 ppm	8h	188 mg/m3	50 ppm	15min	Skin	DENMARK
HTP	81 mg/m3	25 ppm	8h	380 mg/m3	100 ppm	15min	Skin	FINLAND
RV	50 mg/m3	14 ppm	8h	150 mg/m3	40 ppm	15min	Skin	LATVIA
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	ROMANIA
WEL	191 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	UNITED KINGDOM
VLA	191 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	SPAIN
MAK	190 mg/m3	50 ppm	8h	760 mg/m3	200 ppm	15min	Skin	SWITZERLAND
TLV-ACGIH	75.4 mg/m3	20 ppm	8h				Skin	
VLEP	77 mg/m3	20 ppm	8h	384 mg/m3	100 ppm	15min	Skin	BELGIUM
MAK	190 mg/m3	50 ppm	8h	760 mg/m3	200 ppm	15min	Skin	GERMANY
AGW	190 mg/m3	50 ppm	8h	760 mg/m3	200 ppm	15min	Skin	GERMANY
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min	Skin	ESTONIA
EU	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm		Skin	
VLEP	76.8 mg/m3	20 ppm	8h	384 mg/m3	100 ppm	15min	Skin	FRANCE
TLV	192 mg/m3	50 ppm	8h	384 mg/m3	100 ppm	15min		GREECE
AK	190		8h	380		15min	Skin	HUNGARY

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	mg/m ³			mg/m ³				
GVI/KGVI	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	CROATIA
VLEP	192 mg/m ³	50 ppm	8h				Skin	ITALY
OELV	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	IRELAND
TLV	94 mg/m ³	25 ppm	8h				Skin	NORWAY
TGG	150 mg/m ³		8h	384 mg/m ³		15min		NETHERLANDS
NDS/NDSch	100 mg/m ³		8h	200 mg/m ³		15min	Skin	POLAND
NGV/KGV	192 mg/m ³	50 ppm	8h	384 mg/m ³	100 ppm	15min	Skin	SWEDEN
NPEL	192 mg/m ³	50 ppm	8h	384 mg/m ³		15min	Skin	SLOVAKIA (Slovak Republic)
ACGIH		20 ppm	8h				A4, BEI - Visual impair, female repro, pregnancy loss	

DNEL Exposure Limit Values

xylene - CAS: 1330-20-7

Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 289 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Consumer: 1.67 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 37.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 310 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 15 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 65 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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PNEC Exposure Limit Values

xylene - CAS: 1330-20-7

Value: 2.31 mg/kg

Target: Fresh Water - Value: 0.327 mg/l

Target: intermittent release - Value: 0.327 mg/l

Target: Marine water - Value: 0.327 mg/l

Target: Freshwater sediments - Value: 12.46 mg/kg

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Microorganisms in sewage treatments - Value: 6.58 mg/l

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l

Target: Marine water - Value: 1.9 mg/l

Target: Freshwater sediments - Value: 70.2 mg/kg

Target: Marine water sediments - Value: 7.02 mg/kg

Target: intermittent release - Value: 190 mg/l

Target: Microorganisms in sewage treatments - Value: 4168 mg/l

Target: Soil (agricultural) - Value: 2.74 mg/kg

Biological Exposure Index

xylene - CAS: 1330-20-7

Value: 1.5 g/g - medium: Creatinine - Biological Indicator: Methyl hippuric acid in urine -

Sampling Period: End of turn

toluene - CAS: 108-88-3

Value: 0.02 mg/L - Biological Indicator: Toluene in blood - Sampling Period: Before turn

Value: 0.3 mg/g - Biological Indicator: o-Cresol in urine - Sampling Period: End of turn

ethylbenzene - CAS: 100-41-4

Value: 0.15 g/g - medium: Creatinine - Biological Indicator: Sum of mandelic acid in

urine and acid fenilglossalico - Sampling Period: End of turn

toluene - CAS: 108-88-3

Value: 0.02 mg/L - Biological Indicator: Toluene in blood - Sampling Period: Before turn

Value: 0.3 mg/g - Biological Indicator: o-Cresol in urine - Sampling Period: End of turn

8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Eye protection:

Wear airtight protective goggles.

Protection for skin:

Wear professional overalls and safety footwear.

Protection for hands:

Protect hands with work gloves.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g.

TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	Fluid, light blue	--	--
Odour:	Typical of solvent	--	--
Odour threshold:	Not available	--	--
pH:	Not Relevant	--	--
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	113°C	Regulation (EC) No. 440/2008, Annex, A.2	--
Flash point:	27 ° C	Pensky – Martens	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not available	--	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	Not available	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	303 mm ² /s		--
Explosive properties:	Not available	--	--
Oxidizing properties:	Not available	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

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

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid all sources of ignition.

Heat, direct sunlight.

10.5. Incompatible materials

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

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10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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- a) acute toxicity
Not classified

- 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

- e) germ cell mutagenicity
Not classified

- f) carcinogenicity
Not classified

- g) reproductive toxicity
The product is classified: Repr. 2 H361
- h) STOT-single exposure
The product is classified: STOT SE 3 H335
- i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
- j) aspiration hazard
Not classified

Toxicological information of the main substances found in the product:

xylene - CAS: 1330-20-7

- a) acute toxicity:
 - Test: LD50 - Route: Skin - Species: Rabbit > 4200 mg/kg - Source: (ECHA dossier).
 - Test: LC50 - Route: Inhalation - Species: Rat 6350 ppm - Source: (EU Method B.2, ECHA dossier).
 - Test: LD50 - Route: Oral - Species: Rat 3523 mg/kg - Source: (EU Method B.1, GLP, ECHA dossier).
- b) skin corrosion/irritation:
 - Species: Rabbit - Skin Irritant - Source: (ECHA dossier).
- c) serious eye damage/irritation:
 - Species: Rabbit - Eye Irritant - Source: (ECHA dossier).
- d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Species: Mouse - Based on available data, the classification criteria are not met - Source: (ECHA dossier).
- e) germ cell mutagenicity:
 - Test: In vitro - Negative - Source: (ECHA dossier).
 - Test: In vivo - Species: Mouse - Negative - Source: (ECHA dossier).
- f) carcinogenicity:
 - Species: Rat - Negative - Source: (ECHA dossier).
- g) reproductive toxicity:

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Based on available data, the classification criteria are not met - Source: (ECHA dossier).

h) STOT-single exposure:

Respiratory Tract Irritant - Source: (ECHA dossier).

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit 12124 mg/kg - Source: (ECHA dossier).

Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration: 4h - Source: (ECHA dossier).

Test: LD50 - Route: Oral - Species: Rat 5580 mg/kg - Source: (ECHA dossier).

b) skin corrosion/irritation:

Species: Rabbit - Skin Irritant - Source: (OECD 404, ECHA dossier).

c) serious eye damage/irritation:

Species: Rabbit - Based on available data, the classification criteria are not met - Source: (OECD 405, ECHA dossier).5

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Based on available data, the classification criteria are not met - Source: (OECD 406, ECHA dossier).

e) germ cell mutagenicity:

Test: In vitro - Negative - Source: (OECD 471, OECD 476, ECHA dossier).

Test: In vivo - Species: Rat - Negative - Source: (Chromosome aberration assay, ECHA dossier).

g) reproductive toxicity:

Test: Developmental toxicity - Species: Rat - Positive - Source: (OECD 416 ed EPA OTS 798.4350, ECHA dossier).

i) STOT-repeated exposure:

Route: Inhalation Vapour - Notes: Target organ: nervous system - Positive - Source: (ECHA dossier).

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit 17.8 ml/kg - Source: (publication, ECHA dossier)

Test: LC50 - Route: Inhalation - Species: Mouse 6.2 mg/l - Source: (publication, ECHA dossier)

Test: LD50 - Route: Oral - Species: Rat 3500 mg/kg - Source: (ECHA dossier).

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 19020 mg/kg - Source: (MSDS supplier).

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: (MSDS supplier).

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit 12124 mg/kg - Source: (ECHA dossier).

Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration: 4h - Source: (ECHA dossier).

Test: LD50 - Route: Oral - Species: Rat 5580 mg/kg - Source: (ECHA dossier).

b) skin corrosion/irritation:

Species: Rabbit - Skin Irritant - Source: (OECD 404, ECHA dossier).

c) serious eye damage/irritation:

Species: Rabbit - Based on available data, the classification criteria are not met - Source: (OECD 405, ECHA dossier).

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Based on available data, the classification criteria are not met - Source: (OECD 406, ECHA dossier).

e) germ cell mutagenicity:

Test: In vitro - Negative - Source: (OECD 471, OECD 476, ECHA dossier).

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Test: In vivo - Species: Rat - Negative - Source: (Chromosome aberration assay, ECHA dossier).

g) reproductive toxicity:

Test: Developmental toxicity - Species: Rat - Positive - Source: (OECD 416 ed EPA OTS 798.4350, ECHA dossier).

h) STOT-single exposure:

Route: Inhalation Vapour - Notes: Target organ: nervous system - Positive - Source: (ECHA dossier).

SECTION 12: Ecological information**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.
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Not classified for environmental hazards

Based on available data, the classification criteria are not met

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 7.6 mg/l - Duration h: 96h (OECD 203, Oncorhynchus mykiss, ECHA dossier)

Endpoint: EC50 - Species: Daphnia 3.82 mg/l - Duration h: 48h (Daphnia magna, ECHA dossier).

Endpoint: IC50 - Species: Algae 4.36 mg/l - Duration h: 72h (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier).

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC10 - Species: Fish 5.5 mg/l - Duration h: 96h (Oncorhynchus kisutch, dynamic, freshwater, ECHA dossier).

Endpoint: EC50 - Species: Daphnia 3.78 mg/l - Duration h: 48h (Daphnia magna, semi-static, freshwater, ECHA dossier).

Endpoint: EC50 - Species: Algae 134 mg/l - Duration h: 72h (ECHA dossier).

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 4.2 mg/l (ECHA dossier).

Endpoint: LC50 - Species: Daphnia 1.8 mg/l (ECHA dossier).

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96h (OECD 203, MSDS supplier).

Endpoint: LC50 - Species: Daphnia 1919 mg/l - Duration h: 48h (OPP 72-2 EPA, MSDS supplier).

Endpoint: EC50 - Species: Algae > 969 mg/l - Duration h: 96h (OECD 201, MSDS supplier).

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC10 - Species: Fish 5.5 mg/l - Duration h: 96h (Oncorhynchus kisutch, dynamic, freshwater, ECHA dossier).

Endpoint: EC50 - Species: Daphnia 3.78 mg/l - Duration h: 48h (Daphnia magna, semi-static, freshwater, ECHA dossier).

Endpoint: EC50 - Species: Algae 134 mg/l - Duration h: 72h (ECHA dossier).

12.2. Persistence and degradability

xylene - CAS: 1330-20-7

Biodegradability: Readily biodegradable

toluene - CAS: 108-88-3

Biodegradability: Readily biodegradable

ethylbenzene - CAS: 100-41-4

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Biodegradability: Readily biodegradable
(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Biodegradability: Readily biodegradable
toluene - CAS: 108-88-3

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

toluene - CAS: 108-88-3

Test: BCF - Bioconcentration factor 90

Test: Kow - Partition coefficient 2.73

toluene - CAS: 108-88-3

Test: BCF - Bioconcentration factor 90

Test: Kow - Partition coefficient 2.73

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information**14.1. UN number**

ADR-UN Number: 1133

IATA-UN Number: 1133

IMDG-UN Number: 1133

14.2. UN proper shipping name

ADR-Shipping Name: ADHESIVES

IATA-Shipping Name: ADHESIVES

IMDG-Shipping Name: ADHESIVES

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

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14.6. Special precautions for user

ADR-Subsidiary hazards:	-
ADR-S.P.:	-
ADR-Transport category (Tunnel restriction code):	3 (D/E)
ADR - Hazard identification number:	30
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3
IATA-ERG:	3L
IMDG-EmS:	F-E, S-D
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

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

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 (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
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. 2018/699 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)

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:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 48

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

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

Lagerklasse according to TRGS 510:

LGK 3: Flammable liquids

Lagerklasse according to TRGS 510:

LGK 3: Flammable liquids

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WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)
 WGK2 - Hazardous for water
 Lagerklasse according to TRGS 510:
 LGK 3: Flammable liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
 None.

California Proposition 65
 Substance(s) listed under California Proposition 65:
 toluene - Listed as reproductive toxicant
 toluene - Listed as reproductive toxicant.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.
 Substances for which a Chemical Safety Assessment has been carried out:
 None

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H304 May be fatal if swallowed and enters airways.
 H226 Flammable liquid and vapour.
 H312 Harmful in contact with skin.
 H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs (nervous system) through prolonged or repeated exposure.
 H225 Highly flammable liquid and vapour.
 H412 Harmful to aquatic life with long lasting effects.

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

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

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Repr. 2, H361	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method

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

Main bibliographic sources:

- ECHA – European Chemical Agency
- GESTIS - Information system on hazardous substances of the German Social Accident Insurance
- IARC – International Agency for Research on Cancer
- IPCS INCHEM – International Programme on Chemical Safety
- ISS – Istituto Superiore di Sanità
- PubChem - open chemistry database at the National Institutes of Health (NIH)

A safety data sheet is not required for this product under article 31 of Regulation 1907/2006/EC. This safety data sheet has been created on a voluntary basis.

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 MSDS cancels and replaces any preceding release.

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- ATE: Acute Toxicity Estimate
- ATEmix: Acute toxicity Estimate (Mixtures)
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- CLP: Classification, Labeling, Packaging.
- DNEL: Derived No Effect Level.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- 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.
- KSt: Explosion coefficient.
- LC50: Lethal concentration, for 50 percent of test population.
- LD50: Lethal dose, for 50 percent of test population.
- PNEC: Predicted No Effect Concentration.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- STEL: Short Term Exposure limit.

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STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.