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SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier Trade name: Haftvermittler / Adhesion Promoter V40 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, maintainance, services, craftsmen) · Product category PC1 Adhesives, sealants Process category PROC10 Roller application or brushing Environmental release category ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) · Application of the substance / the mixture Adhesion promoter 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: merz+benteli ag Freiburgstrasse 616 CH-3172 Niederwangen/Bern Tel: +41 31 980 48 48 Fax: +41 31 980 48 49 E-mail: info@merz-benteli.ch Web: www.merz-benteli.ch · Further information obtainable from: merz+benteli ag: Tel: +41(0)31 980 48 48 E-mail: info@merz-benteli.ch · 1.4 Emergency telephone number: merz+benteli ag: Tel.: +41(0)31 980 48 48 National emergency phone number Switzerland: Tel.: +41 145 SwissToxicological Information center: Tel.: +41(0)44 251 51 51 E-mail: info@toxi.ch **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Lig. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS05 corrosion Eye Dam. 1 H318 Causes serious eye damage. (Contd. on page 2)

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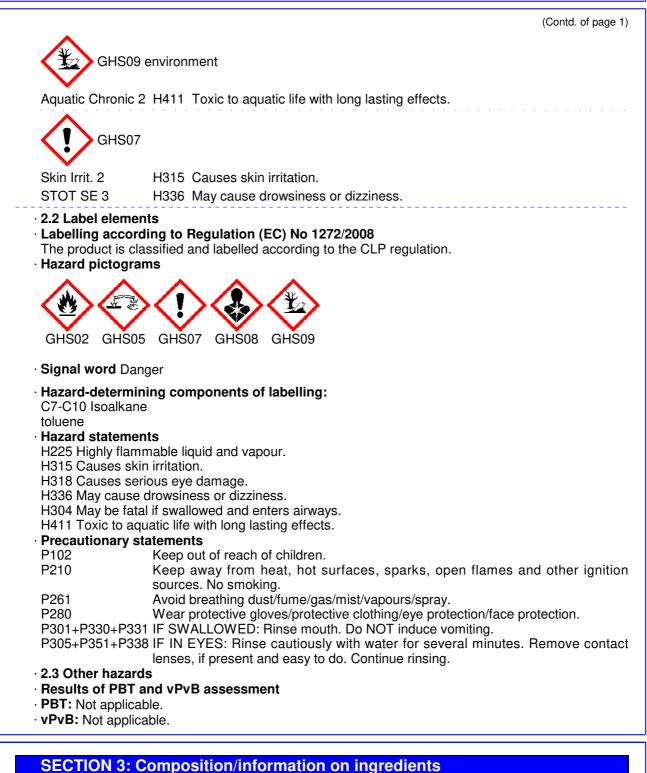
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· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 90622-56-3 EINECS: 292-458-5 Index number: 002-924-58-5 Reg.nr.: 01-2119471305-42-xxxx	C7-C10 Isoalkane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥75-≤100%
CAS: 1330-20-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	1-<5%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-2119471310-51-xxxx	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≥1-<3%
• Additional information: For the wording of the listed hazard phrases refer to section 16.		

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Wash with plenty of water or water and soap. In cases of sickness seek medical advice (show label if possible).

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

- Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. CO2, sand, extinguishing powder. Do not use water.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture
- Soot formation during the combustion.
- 5.3 Advice for firefighters
- \cdot Protective equipment: Wear self-contained respiratory protective device.

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· Additional information Cool endangered receptacles with water spray.

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SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Keep contaminated washing water and dispose of appropriately. Prevent from spreading (e.g. by damming-in or oil barriers). 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store product only in tightly closed original containers. Store in a cool and dry location.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

 Ingredients with limit values that require monitoring at the workplace: 	
108-88-3 toluene	
AGW (Germany) 190 mg/m ³ , 50 ppm 4(II);DFG, EU, H, Y	
1330-20-7 xylene	
AGW (Germany) 440 mg/m ³ , 100 ppm 2(II);DFG, EU, H	
· · · · · ·	(Contd. on page 5)

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100-41-4 ethylbe	(Contd. of pag
	Long-term value: 88 mg/m ³ , 20 ppm 2(II);DFG, H, Y, EU
In ave dianta with	
108-88-3 toluene	biological limit values:
BGW (Germany)	
DGW (Germany)	Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Toluol
	3.0 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: Nach mehrere vorangegangenen Schichten, Expositionsende bzw. Schichtende Parameter: o-Kresol
1330-20-7 xylene	
BGW (Germany)	1.5 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Xylol
	2 g/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Methylhippur-(Tolur-)Säure
100-41-4 ethylbe	
BGW (Germany)	250 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Mandelsäure plus Phenoxyglyxylsäure
Additional inform	nation: The lists valid during the making were used as basis.
The usual precau Keep away from f Immediately remo Do not inhale gas Avoid contact with Do not eat, drink, Wash hands befo Respiratory prot In case of brief ex exposure use self Filter AX	tive equipment: ve and hygienic measures: tionary measures are to be adhered to when handling chemicals. oodstuffs, beverages and feed. ove all soiled and contaminated clothing es / fumes / aerosols. In the eyes and skin. smoke or sniff while working. re breaks and at the end of work. ection: kposure or low pollution use respiratory filter device. In case of intensive or long -contained respiratory protective device. iratory protective device in case of insufficient ventilation.
Protect	ive gloves recommand

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(Contd. of page 5) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9.1 Information on basic physical and General Information	d chemical properties
Appearance:	
Form: Colour:	Liquid Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point:	Not determined.
Initial boiling point and boiling range Flash point:	6 °C
Flammability (solid, gas):	Not determined.
Ignition temperature:	>200 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	8.3 Vol %
Oxidising properties	Not determined.
Vapour pressure at 20 °C:	16.3 hPa
Density at 20 °C:	0.75 g/cm ³

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Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
 Solubility in / Miscibility with 	
water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
· Solvent content:	
VOC (EC)	94.13 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions Forms explosive gas mixture with air.
- 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: Avoid contact with other chemicals.
- 10.6 Hazardous decomposition products: Possible in traces.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:			
1330-20-7	1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	27.6 mg/l (rat)	
90622-56-	3 C7-C10	Isoalkane	
Oral	LD50	>10,000 mg/kg (rat)	
Dermal	LD50	>3,000 mg/kg (rat)	
Inhalative	LC50/4 h	21 mg/l (rat)	
108-88-3 1	108-88-3 toluene		
Oral	LD50	5,000 mg/kg (rat)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative	LC50/4 h	5,320 mg/l (mouse)	
100-41-4 (100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rabbit)	
	Primary irritant effect:		
Skin corrosion/irritation			
Causes skin irritation. (Contd. on page 8			

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· Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

1330-20-7 Xylene

LC50/96h: 3.77 mg/L (fish)

EC50/48h: 7.4 mg/L (daphnia magna)

EC50/72h: 10 mg/L (skelettonema costatum)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Danger to drinking water if even small quantities leak into the ground.

The product should not be released into the aquatic environment without preliminary treatments (biological purification plant).

- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · European waste catalogue
- 08 04 99 wastes not otherwise specified
- 15 01 04 metallic packaging
- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information · 14.1 UN-Number · ADR, IMDG, IATA UN1993 14.2 UN proper shipping name 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, · ADR XYLENES), special provision 640D · IMDG 1993 Flammable liquid, n.o.s. (Alkanes, C7-C10-Iso-), Marine Pollutant 1993 Flammable liquid, n.o.s. (Alkanes, C7-C10-· IATA lso-) · 14.3 Transport hazard class(es) · ADR, IMDG · Class 3 Flammable liquids. · Label 3 · IATA 3 Flammable liquids. · Class · Label 3 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: • Marine pollutant: Yes Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Flammable liquids. Hazard identification number (Kemler code): 33 F-E,S-E · EMS Number: · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 1L · Transport category 2 Tunnel restriction code D/E · IMDG · Limited quantities (LQ) 1L (Contd. on page 10)

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· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (TOLUENE, XYLENES), special provision 640D, 3, II	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2
- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 4: Acute toxicity dermal Category 4
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Repr. 2: Reproductive toxicity Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Sources Not available

 \cdot * Data compared to the previous version altered.