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SECTION 1:	Identification of the substance/mixture and of the company/undertaking
· 1.1 Product iden	tifier
• Trade name: Tiz	-
• Article number:	
	ntified uses of the substance or mixture and uses advised against
No further releva	nt information available.
• Application of th	e substance / the mixture Hardening agent/ Curing agent
	e supplier of the safety data sheet
· Manufacturer/Su	upplier: nbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany)
	3/814-0 Fax: +49 (0)6003/814-900
	tal.de; e-mail: info@schuetz-dental.de
· Further informa	tion obtainable from: F&E, Tel. +49 (0)6003/814-100
	elephone number:
	40 Schütz Dental (8:00 - 17:00 Uhr) or 240 Poison Information Center, University Mainz (24 h)
++> (0) 0151 172	to I bison information Center, Oniversity maint (24 n)
SECTION 2.	II na na la identificación
SECTION 2:	Hazards identification
	n of the substance or mixture
•	cording to Regulation (EC) No 1272/2008
-	25 Highly flammable liquid and vapour.
·	19 Causes serious eye irritation.
	36 May cause drowsiness or dizziness.
· 2.2 Label elemen	
	ling to Regulation (EC) No 1272/2008 assified and labelled according to the CLP regulation.
· Hazard pictogram	
GHS02 GHS0	07
· Signal word Dan	ger
-	ning components of labelling:
acetone	and components of moraling.
• Hazard statemen	
	nmable liquid and vapour.
	ious eye irritation. drowsiness or dizziness.
· Precautionary st	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241 P303+P361+P3	Use explosion-proof electrical/ventilating/lighting/equipment. 53 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin
1505 +1501 +15.	with water/shower.
P305+P351+P3.	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
P405	present and easy to do. Continue rinsing. Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
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• Labelling of packages where the contents do not exceed 125 ml • Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling: acetone

· Hazard statements Void

· 2.3 Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Liquid containing an activator.

· Dangerous components:

· Dangerous components:		
CAS: 67-64-1		75-100%
EINECS: 200-662-2	🚸 Flam. Liq. 2, H225; 🚯 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 99-97-8	N,N-dimethyl-p-toluidine	2,5-10%
EINECS: 202-805-4	🛞 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; 🚯 STOT	
	RE 2, H373; Aquatic Chronic 3, H412	

• Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information 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.
- If skin irritation continues, consult a doctor.
- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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

Carbon dioxide

Fire-extinguishing powder

Foam

Water haze

· For safety reasons unsuitable extinguishing agents Water with full jet.

· 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.

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· 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
- · Additional information
- Cool endangered receptacles with water spray.
- Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Do not inhale vapours. Avoid eye and skin contact with the substance. Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles. When pumping out, please ensure grounding. 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.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Storage between 10 °C and 25 °C.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 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:

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment
- General protective and hygienic measures Immediately remove all soiled and contaminated clothing Store protective clothing separately. Wash hands before breaks and at the end of work.

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Avoid cont	act with the	eyes and skin.
111010 0011	act with the	cycs and shin.

- · Respiratory protection:
- Not necessary if room is well-ventilated.
- Use suitable respiratory protective device when high concentrations are present.
- Short term filter device:
- Filter A

*

- · Protection of hands: Solvent resistant gloves
- Material of gloves Butyl rubber, BR
- \cdot Penetration time of glove material
- 0,1 0,2 mm
- Penetration time: 5 min.
- Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

General Information	
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Acetone-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	56 °C
Flash point:	-17 °C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	465 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	13 Vol %
Vapour pressure at 20 °C:	233 hPa
Density at 20 °C:	0.796 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible
Partition coefficient (n-octanol/wat	t er): Not determined.
Viscosity:	
dynamic:	Not determined
kinematic:	Not determined

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• 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 according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Oxidation agent.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known

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:

ceton			LD-50 oral		5800 mg/kg rat			
			LD-5	50 subcutan		1250 mg/	kg rab	
7 3 7 7.	. 7	7	1 . 1.	ID 50	7	1147	- a	

N,N-dimethyl-p-toluidine LD-50 oral 1147 mg/kg rat (lit.)

• Primary irritant effect:

A

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- \cdot Serious eye damage/irritation

Causes serious eye irritation.

• 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 Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- • Type of test
 Effective concentration
 Method
 Assessment

 Acetone:
 LC50/96 h:
 6 500 mg/l
 rainbow trout

 LC50/48 h:
 12 600 mg/l
 Daphnia magna
- · 12.2 Persistence and degradability No further relevant information available.
- Other information: Acetone: easily biodegradable
- 12.3 Bioaccumulative potential Acetone: No bio-accumulation
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

• General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

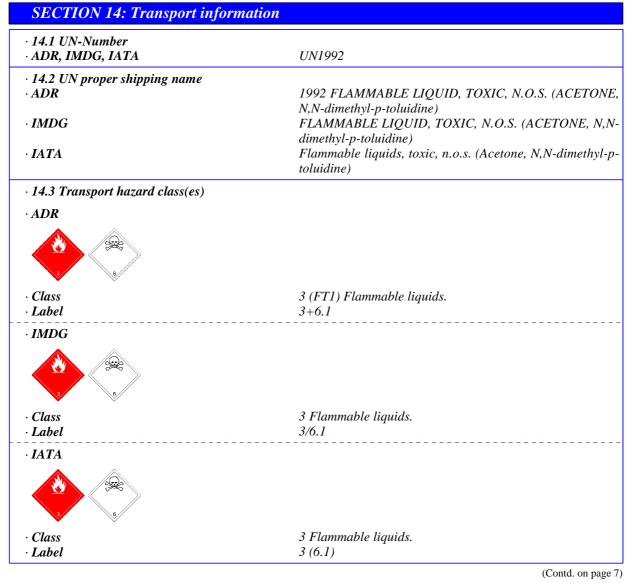
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

07 01 04* other organic solvents, washing liquids and mother liquors

• Uncleaned packaging:

- · Recommendation:
- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- $\cdot \textit{Recommended cleansing agents: Water, if necessary together with cleansing agents.}$



Safety data sheet

according to 1907/2006/EC, Article 31					
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· 14.4 Packing group · ADR, IMDG, IATA	II				
· 14.5 Environmental hazards: · Marine pollutant:	No				
 14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category Stowage Code 	Warning: Flammable liqui 336 F-E,S-D B SW2 Clear of living quarte				
· 14.7 Transport in bulk according to Anno Marpol and the IBC Code	e x II of Not applicable.				
· Transport/Additional information:					
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	1L Code: E2 Maximum net quantity per Maximum net quantity per 2 D/E				
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per Maximum net quantity per				
· UN ''Model Regulation'':		E LIQUID, TOXIC, N.O.S. HYL-P-TOLUIDINE), 3 (6.1), II			

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- · Seveso category P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· National regulations

· Technical instructions (air):

Class	Share in %
Ι	2,5-10
NK	75-100

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

• 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.

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H301 Toxic if swallowed.	
H311 Toxic in contact with skin.	
H319 Causes serious eye irritation.	
H331 Toxic if inhaled.	
H336 May cause drowsiness or dizziness.	
H373 May cause damage to organs through prolonged or repeated exposure.	
H412 Harmful to aquatic life with long lasting effects.	
· Department issuing MSDS: F & E	
· Contact: Dr. U. Krichbaum	
Abbreviations and acronyms:	
<i>RID: Règlement international concernant le transport des marchandises dangereuses par chemin a</i>	le for (Regulations Concerning the
International Transport of Dangerous Goods by Rail)	ie jer (Regulations Concerning the
ICAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agree	ement concerning the International
Carriage of Dangerous Goods by Road)	0
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)	
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, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3	
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	
\cdot * Data compared to the previous version altered.	
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