Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

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

· 1.1 Product identifier

• Trade name: <u>Tizian Fix Härter</u>

• Article number: 629537

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

• Application of the substance / the mixture Hardening agent/ Curing agent

 $\cdot$  1.3 Details of the supplier of the safety data sheet

### • Manufacturer/Supplier:

Schütz Dental GmbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany) Tel.: +49 (0)6003/814-0 Fax: +49 (0)6003/814-906 www.schuetz-dental.de; e-mail: info@schuetz-dental.de

- Further information obtainable from: Tel.: +49 (0)6003/814-630
- · 1.4 Emergency telephone number:
- +49 (0) 6003 8140 Schütz Dental (8:00 17:00 Uhr) or
- +49 (0) 6131 19240 Poison Information Center, University Mainz (24 h)

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

 $\cdot$  Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

### · Labelling according to Regulation (EC) No 1272/2008

*The product is classified and labelled according to the GB CLP regulation. Hazard pictograms* 



· Signal word Danger

• Hazard-determining components of labelling: acetone

• Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

*P501* Dispose of contents/container in accordance with local/regional/national/international regulations.

• Additional information:

*Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.* 

(Contd. on page 2)

GB

Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

Trade name: Tizian Fix Härter

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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

· 3.2 Mixtures

· Description: Liquid containing an activator.

· Dangerous components:		
CAS: 67-64-1	acetone	75-100%
EINECS: 200-662-2	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	
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 hazard 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 eve contact Rinse opened eve 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.
- 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.
- · 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

(Contd. on page 3)

(Contd. of page 1)

Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

(Contd. of page 2)

### Trade name: Tizian Fix Härter

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

 $\cdot$  6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

• 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 7 for information on safe nanating 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**

### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

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

### · 8.2 Exposure controls

• Appropriate engineering controls No further data; see item 7.

- · Individual protection measures, such as 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. Avoid contact with the eves and skin.
- 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 • Hand protection Solvent resistant gloves • Material of gloves Butyl rubber, BR Nitrile rubber, NBR • Penetration time of glove material

*Penetration time of glove material* 0,3 mm *Penetration time 60 min.* 0,11 mm *Penetration time 10 min.* 

(Contd. on page 4)

Printing date 16.01.2023

\*

Version: 5 (replaces version 4)

Revision: 16.01.2023

(Contd. of page 3)

GB

Trade name: Tizian Fix Härter

- *Eye/face protection Safety glasses Body protection: Protective work clothing.*

SECTION 9: Physical and chemical properties				
• 9.1 Information on basic physical and chemical properties				
· General Information	-			
· Physical state	Fluid			
· Colour:	Colourless			
· Odour:	Acetone-like			
• Odour threshold:	Not determined.			
• Melting point/freezing point:	-94.7 °C			
· Boiling point or initial boiling point and boiling				
range	56 °C			
· Flammability	Highly flammable.			
· Lower and upper explosion limit				
· Lower:	2.6 Vol %			
· Upper:	13 Vol %			
· Flash point:	-17 °C			
· Ignition temperature:	465 °C			
• Decomposition temperature:	Not determined.			
· pH	Not determined.			
· Viscosity:				
· Kinematic viscosity	Not determined			
· dynamic:	Not determined			
· Solubility				
· Water:	Fully miscible			
· Partition coefficient n-octanol/water (log value)	Not determined.			
· Vapour pressure at 20 °C:	233 hPa			
· Density and/or relative density				
· Density at 20 °C:	$0.796 \ g/cm^3$			
· Relative density	Not determined.			
· Vapour density	Not determined.			
• 9.2 Other information				
· Appearance:				
· Form:	Fluid			
· Important information on protection of health and	d			
environment, and on safety.				
· Auto-ignition temperature:	Product is not selfigniting.			
· Explosive properties:	Product is not explosive. However, formation of			
	explosive air/vapour mixtures are possible.			
· Molecular weight	58.08 g/mol			
Change in condition				
· Evaporation rate	Not determined.			
· Information with regard to physical hazard classe	S			
Explosives	Void			
· Flammable gases	Void			
· Aerosols	Void			
· Oxidising gases	Void			
· Gases under pressure	Void			
· Flammable liquids	Highly flammable liquid and vapour.			
· Flammable solids	Void			
· Self-reactive substances and mixtures	Void			
Pyrophoric liquids	Void			
· Pyrophoric solids	Void			
	(Contd. on page 5)			

Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

Trade name: Tizian Fix Härter

		(Contd. of page 4)
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	nable	
gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

### **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.
- $\cdot$  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 hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

AcetonLD-50 oral5800 mg/kg ratLD-50 subcutan1250 mg/kg rab

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

• Serious eye damage/irritation Causes serious eye irritation.

• STOT-single exposure May cause drowsiness or dizziness.

 $\cdot$  11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- Type of testEffective concentrationMethodAssessmentAcetone:LC50/96 h:6 500 mg/lrainbow 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.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

(Contd. on page 6)

GB

Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

### Trade name: Tizian Fix Härter

(Contd. of page 5) Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **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.

- Uncleaned packaging:
- · Recommendation:

\*

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

• 14.1 UN number or ID number • ADR, IMDG, IATA	UN1992
· 14.2 UN proper shipping name · ADR	1992 FLAMMABLE LIQUID, TOXIC, N.O. (ACETONE, N,N-dimethyl-p-toluidine)
IMDG, IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETON N,N-dimethyl-p-toluidine)
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (FT1) Flammable liquids. 3+6.1
· IMDG	
· Class	3 Flammable liquids.
· Label	3/6.1
· Class	3 Flammable liquids.
· Label	3 (6.1)
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No

Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

Trade name: Tizian Fix Härter

	(Contd. of page 6
· 14.6 Special precautions for user	Warning: Flammable liquids.
• Hazard identification number (Kemler code):	336
· EMS Number:	F-E,S-D
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
• Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
• Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
• Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONE, N,N-DIMETHYL-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
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · National regulations
- Technical instructions (air):

Share in %
2,5-10
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.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.

(Contd. on page 8)

Printing date 16.01.2023

Version: 5 (replaces version 4)

Revision: 16.01.2023

### Trade name: Tizian Fix Härter

	(Contd. of page 7
H336 May cause drowsiness or dizziness.	
H373 May cause damage to organs through prolong	ed or repeated exposure.
H412 Harmful to aquatic life with long lasting effects	5.
EUH066 Repeated exposure may cause skin dryness or a	
Department issuing SDS: Schütz Dental GmbH	
Contact: Dr. U. Krichbaum	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchand International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation	lises dangereuses par chemin de fer (Regulations Concerning th
ADR: Accord relatif au transport international des marchandises International Carriage of Dangerous Goods by Road)	s dangereuses par route (European Agreement Concerning th
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of	
EINECS: European Inventory of Existing Commercial Chemical Subs	tances
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 – Category 2	
Acute Tox. 3: Acute toxicity – Category 3	
<i>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</i>	
STOT SE 3: Specific target organ toxicity (single exposure) – Catego	rv 3
STOT RE 2: Specific target organ toxicity (single exposure) – Cate	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term	
* Data compared to the previous version altered.	
2 and compared to the previous version differen	