

Version number 5 Printing date 12.08.2019 Revision: 12.04.2018 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Titanbeize spezial Special titanium pickling solution · Article number: 3030400302 · 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 Paint remover · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Wieland Edelmetalle GmbH Schwenninger Str. 13 75179 Pforzheim Telefon +49 (07231)-1393-0, Telefax +49 (07231)-1393-100 · Further information obtainable from: Wieland Edelmetalle GmbH www.wieland-edelmetalle.de msds@wieland-edelmetalle.de · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 2 H310 Fatal in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

- Hazard-determining components of labelling: hydrofluoric acid
- nitric acid
- · Hazard statements

H301+H331 Toxic if swallowed or if inhaled.

H310 Fatal in contact with skin.

(Contd. on page 2)



Printing date 12.08.2019

Version number 5

Revision: 12.04.2018

Trade name:	Titanbeize spezial
	Special titanium pickling solution

	(Contd. of page 1)
H314	Causes severe skin burns and eye damage.
· Precaution	nary statements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P36	1+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P35	1+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.
· 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

 \cdot **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Danger ous components.		
CAS: 7664-39-3	hydrofluoric acid	<10%
EINECS: 231-634-8	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330;	
CAS: 7697-37-2	nitric acid	10-<20%
EINECS: 231-714-2	Ox. Liq. 3, H272; Acute Tox. 3, H331; Met. Corr.1, H290; Skin Corr. 1A, H314	

• 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.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Rub in Ca-gluconate solution or Ca-gluconate gel immediately.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- \cdot 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

(Contd. on page 3)

GB



Printing date 12.08.2019

Version number 5

Revision: 12.04.2018

Trade name: Titanbeize spezial Special titanium pickling solution

• 4.3 Indication of any immediate medical attention and special treatment needed

(Contd. of page 2)

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- \cdot Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Nitrogen oxides (NOx) Hydrogen fluoride (HF)
- 5.3 Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Mount respiratory protective device.
- \cdot Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Dilute with plenty of water.

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). Use neutralising agent.

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.

Open and handle receptacle with care.

- Prevent formation of aerosols.
- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- \cdot Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Keep receptacle tightly sealed.
- · Storage class: 6.1 B

(Contd. on page 4)

GR



Printing date 12.08.2019

Version number 5

Trade name: Titanbeize spezial

Special titanium pickling solution

• 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:

7697-37-2 nitric acid

WEL Short-term value: 2.6 mg/m³, 1 ppm

7664-39-3 hydrofluoric acid

WEL Short-term value: 2.5 mg/m³, 3 ppm

Long-term value: 1.5 mg/m³, 1.8 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

E, ABEK

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/

the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

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.

Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. Value for the permeation: Level ≤ 6

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

\cdot Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

(Contd. on page 5)

(Contd. of page 3)

GB



Printing date 12.08.2019

Version number 5

Trade name: Titanbeize spezial Special titanium pickling solution

(Contd. of page 4)

· Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

9.1 Information on basic physical and c	hemical properties	
General Information	K. (K. K. K.	
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value at 20 °C:	< 1	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	:>100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	40 hPa	
Density at 20 °C:	1.16 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/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	33.3 %	
9.2 Other information	No further relevant information available.	

(Contd. on page 6)



Printing date 12.08.2019

Version number 5

Revision: 12.04.2018

Trade name: Titanbeize spezial

Special titanium pickling solution

(Contd. of page 5)

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 Reacts with strong alkali.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Nitrogen oxides

Hydrogen fluoride

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Toxic if swallowed or if inhaled. Fatal in contact with skin.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)		
Oral	LD50	55.6 mg/kg
Dermal	LD50	55.6 mg/kg
Inhalative	LC50/4 h	55.6 mg/kg 55.6 mg/kg 4.29 mg/l

7697-37-2 nitric acid

		430 mg/kg (nitric acid anhydrous)
Inhalative	LC50/4 h	2.65 mg/l (rat) (NO2)
		2.65 mg/l (rbt)

7664-39-3 hydrofluoric acid

	v	
Oral	LD50	5 mg/kg (ATE)
	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.5 mg/l (ATE)

· Primary irritant effect:

- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- \cdot 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 Based on available data, the classification criteria are not met.
- · 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.

(Contd. on page 7)



Printing date 12.08.2019

Version number 5

Trade name: Titanbeize spezial Special titanium pickling solution

(Contd. of page 6)

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

7697-37-2 nitric acid

- LC50 72 mg/l (96h) (Gambusia affinis (Mosquitofish)) (anhydrous)
- 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential

7697-37-2 nitric acid

Bioaccumulation 2.3 (25°C, distribution coefficient: n-octanol/water)

· 12.4 Mobility in soil No further relevant information available.

· Additional ecological information:

\cdot General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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 be specially treated adhering to official regulations.

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

· Uncleaned packaging:

· Recommendation:

*

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. 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.

SECTION 14: Transport inform	uuun
· 14.1 UN-Number · ADR, IMDG, IATA	UN2922
· 14.2 UN proper shipping name	
ADR	2922 CORROSIVE LIQUID, TOXIC, N.O.S
	(HYDROFLUORIC ACID, NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, TOXIC, N.O.S
	(HYDROFLUORIC ACID, NITRIC ACID)

GB -



Printing date 12.08.2019

Version number 5

Revision: 12.04.2018

Trade name: Titanbeize spezial		
	Special titanium pickling solution	

	(Contd. of
14.3 Transport hazard class(es)	
ADR	
8	
Class	8 (CT1) Corrosive substances.
Label	8+6.1
IMDG	
$\land \land$	
8 6	
Class	8 Corrosive substances.
Label	8/6.1
ІАТА	
<u> </u>	
8	
Class Label	8 Corrosive substances. 8 (6.1)
	8 (0.1)
14.4 Packing group ADR, IMDG, IATA	П
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	86
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	B GWO Changelli in an antan
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Ai Margal and the IBC Code	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L Code: E2
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 ml
Transport category	2
Tunnel restriction code	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
	Maximum net quantity per outer packaging: 500 mi



Printing date 12.08.2019

Version number 5

Revision: 12.04.2018

(Contd. of page 8)

Trade name: Titanbeize spezial

Special titanium pickling solution

· UN "Model Regulation":

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROFLUORIC ACID, NITRIC ACID), 8 (6.1), II

SECTION 15: Regulatory information

 \cdot 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 H2 ACUTE TOXIC

· Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

- · Waterhazard class: Water hazard class 2 (Self-assessment): 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

H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H300 Fatal if swallowed. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H330 Fatal if inhaled. H331 Toxic if inhaled. · 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 3: Oxidizing liquids - Category 3 Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 1: Acute toxicity - Category 1 Acute Tox. 3: Acute toxicity - Category 3 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 • * Data compared to the previous version altered.