Safety data sheet

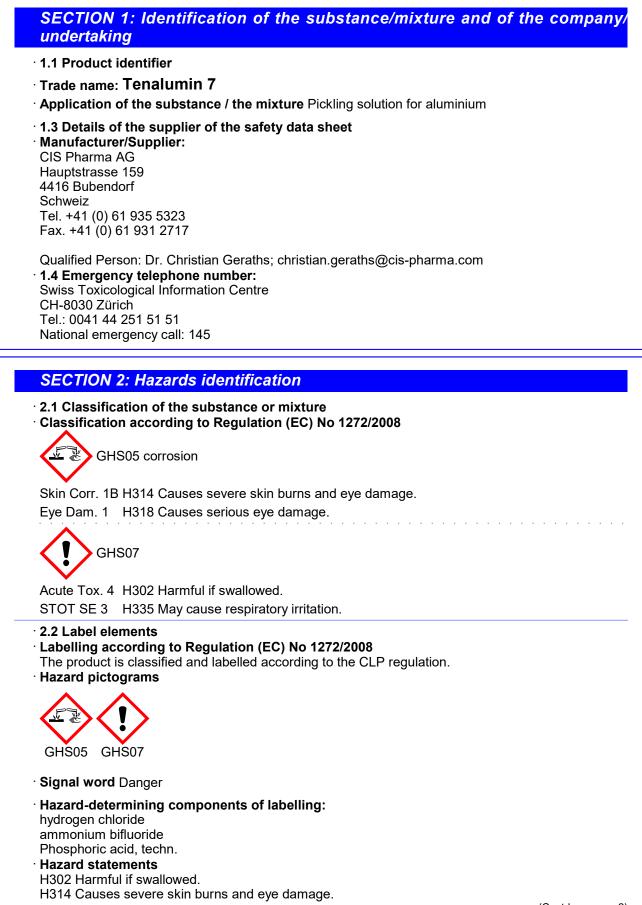
according to 1907/2006/EC, Article 31

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CIS PURETEC A DIVISION OF CIS PHARMA AG

Version number 1

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H335 May cause	respiratory irritation.
· Precautionary st	atements
P260	Do not breathe dusts or mists.
P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
· 2.3 Other hazard	s
· Results of PBT a	and vPvB assessment
· PBT: Not applical	ble.
vPvB: Not application	

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture: consisting of the following components.

· Dangerous components:

CAS: 7647-01-0 hydrogen chloride	25-50%
EINECS: 231-595-7 < Skin Corr. 1B, H314; 🚸 STOT SE 3, H335	
CAS: 7664-38-2 Phosphoric acid, techn.	10-25%
EINECS: 231-633-2 🚸 Skin Corr. 1B, H314	
CAS: 1341-49-7 ammonium bifluoride	≤5%
EINECS: 215-676-4 🚸 Acute Tox. 3, H301; 🚸 Skin Corr. 1B, 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Call for a doctor immediately.

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: Use fire extinguishing methods suitable to surrounding conditions. • 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.

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5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures 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 Store in cool, dry place in tightly closed receptacles. · Information about fire - and explosion protection: No special measures required.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

- · Further information about storage conditions: Keep container 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:

7647-01-0 hydrogen chloride

WEL (Great Britain) Short-term value: 8 mg/m³, 5 ppm Long-term value: 2 mg/m³, 1 ppm

	(gas and aerosol mist	5)	
Δ)	Ceiling limit: 7 mg/m ³	5	nnm

PEL (USA)	Ceiling limit: 7 mg/m³, 5 ppm
	O 11 11 11 7 1 3 F

- REL (USA) Ceiling limit: 7 mg/m³, 5 ppm TLV (USA) Ceiling limit: 2.98 mg/m³, 2 ppm
- MAK (Switzerland) Short-term value: 6 mg/m³, 4 ppm Long-term value: 3 mg/m³, 2 ppm SSc:

7664-38-2 Phosphoric acid, techn.

WEL (Great Britain) Short-term value: 2 mg/m³

Long-term	value:	1 mg/m³

- PEL (USA) Long-term value: 1 mg/m³
- REL (USA) Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

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TLV (USA)	Short-term value: 3 n	na/m³	(Contd. of page 3)
	Long-term value: 1 m		
MAK (Switzerland)			
	Long-term value: 1 m SSc;	ng/m³	
· Additional informa		uring the making were used as basis.	
· 8.2 Exposure conti			
Personal protective			
	and hygienic measured and hygienic measured by a second stuffs, beverages ar		
	e all soiled and contan		
	breaks and at the en	d of work.	
Avoid contact with the Avoid contact with Avoid contact			
· Respiratory protec	tion:		
In case of brief expo	osure or low pollution	use respiratory filter device. In case o	f intensive or longer
• Protection of hand	ontained respiratory p I s :	DI OLECTIVE DEVICE.	
Protective	aloves		
	9.9.00		
The glove materia	I has to be imperm	eable and resistant to the product/ t	he substance/ the
preparation.			
		on to the glove material can be given	for the product/ the
preparation/ the che Selection of the glov		leration of the penetration times, rates	of diffusion and the
degradation		······································	
• Material of gloves			
		not only depend on the material, but al to manufacturer. As the product is a pro	
substances, the resi	istance of the glove m	naterial can not be calculated in advance	
to be checked prior			
Penetration time of The exact break tro		ound out by the manufacturer of the pr	otective gloves and
has to be observed.			elective gievee and
· Eye protection:			
Tightly se	aled goggles		
SECTION 9: Ph	ysical and chem	ical properties	
		chemical properties	
· General Informatio	n		
 Appearance: Form: 		Fluid	
Colour:		According to product specification	
Odour:		Characteristic	
· Odour threshold:		Not determined.	
[·] pH-value at 20 °C:		1	
· Change in conditio			
Melting point/free	ezing point:	Undetermined.	(Contra on more 5)
			(Contd. on page 5)

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Initial bailing paint and bailing your	(Contd. of page 4)
Initial boiling point and boiling range	100°C
· Flash point:	>100 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate water: 	1.18 g/cm ³ Not determined. Not determined. Not determined. Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
 Viscosity: Dynamic: Kinematic: 9.2 Other information 	Not determined. Not determined. 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: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity
- Harmful if swallowed. • LD/LC50 values relevant for classification:

7647-01-0 hydrogen chloride

Oral LD50 900 mg/kg (rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- 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.

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- (Contd. of page 5) • **Reproductive toxicity** Based on available data, the classification criteria are not met. • **STOT-single exposure**
- May cause respiratory irritation.
- · 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.
- **12.2 Persistence and degradability** No further relevant information available.

• Other information:

The surfactant contained in this preparation complies with the biodegradability criteria as laid down in regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them at their direct request or at the request of a detergent manufacturer.

- 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 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

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.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA

· IMDG, IATA

- · 14.2 UN proper shipping name
- · ADR

UN3264

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, AMMONIUM HYDROGENDIFLUORIDE) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, AMMONIUM HYDROGENDIFLUORIDE)

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rade name: Tenalumin 7	
· 14.3 Transport hazard class(es)	(Contd. of page
· ADR, IMDG, IATA	
ADR, INIDG, IATA	
SU 200	
· Class	8 Corrosive substances.
· Label	8
14.4 Packing group	
· ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler): · EMS Number:	80
• Segregation groups	F-A,S-B Acids
• Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
• 14.7 Transport in bulk according to An	
of Marpol and the IBC Code	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 m
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
IN "Model Pequilation"	Maximum net quantity per outer packaging: 500 m
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDI INORGANIC, N.O.S. (HYDROCHLORIC ACI
	AMMONIUM HYDROGENDIFLUORIDE), 8, 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 hydrogen chloride

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

· Waterhazard class (Germany):

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

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTI	ON 16: Other information
	rmation is based on our present knowledge. However, this shall not constitute a guarante pecific product features and shall not establish a legally valid contractual relationship.
Relevan	t phrases
H301 To	xic if swallowed.
H314 Ca	uses severe skin burns and eye damage.
	y cause respiratory irritation.
	ations and acronyms:
	ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulation
Concerning	the International Transport of Dangerous Goods by Rail)
	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
	national Civil Aviation Organisation
	echnical Instructions by the "International Civil Aviation Organisation" (ICAO) ord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning ti
	al Carriage of Dangerous Goods by Road)
	national Maritime Code for Dangerous Goods
	national Air Transport Association
	ally Harmonised System of Classification and Labelling of Chemicals
	uropean Inventory of Existing Commercial Chemical Substances
	uropean List of Notified Chemical Substances
	nical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent
	al dose, 50 percent
	stent, Bioaccumulative and Toxic
	Persistent and very Bioaccumulative
	3: Acute toxicity – Category 3
	4: Acute toxicity – Category 4
	1B: Skin corrosion/irritation – Category 1B
	1: Serious eye damage/eye irritation – Category 1 3: Specific target organ toxicity (single exposure) – Category 3
	ompared to the previous version altered.