

Trade name: Pelox Beizpaste TS-K 2000

Current version : 1.0.0, issued: 22.12.2021

Replaced version: -, issued: -

Region: IE

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name

Pelox Beizpaste TS-K 2000**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Pickling of weld seams / stainless steel surfaces

Uses advised against

Do not use for spraying.

1.3 Details of the supplier of the safety data sheet**Address**

Pelox BioChemie- und Umwelttechnik GmbH & Co. KG

Langer Acker 22

30900 Wedemark

Telephone no. +49 5130 5889 0

e-mail office@pelox.de

1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 2; H310

Acute Tox. 3; H301

Acute Tox. 3; H331

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1A; H314

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS06

Signal word

Danger

Hazardous component(s) to be indicated on label:

nitric acid ...% [C ≤ 70 %]

Hydrofluoric acid

Hazard statement(s)

H290

May be corrosive to metals.

H301+H331

Toxic if swallowed or if inhaled

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H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.

Hazard statements (EU)

EUH071 Corrosive to the respiratory tract.

Precautionary statement(s)

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P310 Immediately call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	nitric acid ...% [C ≤ 70 %]			
	7697-37-2 231-714-2 007-030-00-3 01-2119487297-23	Ox. Liq. 2; H272 Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute Tox. 3; H331 EUH071	>= 10,00 - < 25,00	wt%
2	Hydrofluoric acid			
	7664-39-3 231-634-8 009-003-00-1 01-2119458860-33	Acute Tox. 1; H310 Acute Tox. 2; H330 Acute Tox. 2; H300 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 5,00 - < 10,00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Skin Corr. 1B; H314: C >= 5% Skin Corr. 1A; H314: C >= 20% Ox. Liq. 3; H272: C >= 65% Ox. Liq. 2; H272: C >= 99%	-	-
2	-	Eye Irrit. 2; H319: C >= 0,1% Skin Corr. 1B; H314: C >= 1% Eye Dam. 1; H318: C >= 1% Skin Corr. 1A; H314: C >= 7%	-	-

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Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1			2,65 mg/l

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. Remove contaminated clothing immediately and dispose of safely. In all cases of doubt, or when sickness symptoms persist, seek medical attention. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Take medical treatment.

After skin contact

Wash immediately with plenty of water for several minutes. Apply Calcium gluconate gel and massage into the skin until the pain subsides, in between rinse with water and apply fresh gel. Continue gel therapy for another 15 minutes after the pain has subsided. Call a doctor immediately.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Rinse extensively with calcium gluconate solution. Call a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Nitrogen oxides (NOx); Hydrogen fluoride (HF)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous

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earth and place in container for disposal according to local regulations (see section 13). Avoid mixing with flammable or combustible materials (e.g. sawdust).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Inappropriate material Metal; glass

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	nitric acid ...% [C ≤ 70 %]	7697-37-2	231-714-2
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
	Nitric acid		
	WEL short-term (15 min reference period)	2,6	mg/m ³ 1 ppm
	Comments	IOELV	
2006/15/EC			
	Nitric acid		
	WEL short-term (15 min reference period)	2,6	mg/m ³ 1 ppm
2	Hydrofluoric acid	7664-39-3	231-634-8
2000/39/EC			
	Hydrogen fluoride		
	WEL short-term (15 min reference period)	2,5	mg/m ³ 3 ppm
	WEL long-term (8-hr TWA reference period)	1,5	mg/m ³ 1,8 ppm
2000/39/EC			
	Fluorides, inorganic		
	WEL long-term (8-hr TWA reference period)	2,5	mg/m ³
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
	Hydrogen fluoride (as F)		
	WEL short-term (15 min reference period)	2,5	mg/m ³ 3 ppm
	WEL long-term (8-hr TWA reference period)	1,5	mg/m ³ 1,8 ppm
	Comments	Sk, IOELV	

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DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	nitric acid ...% [C ≤ 70 %]			7697-37-2 231-714-2	
	inhalative	Long term (chronic)	local	2,6	mg/m ³
	inhalative	Short term (acut)	local	2,6	mg/m ³
2	Hydrofluoric acid			7664-39-3 231-634-8	
	inhalative	Long term (chronic)	systemic	1,5	mg/m ³
	inhalative	Short term (acut)	systemic	2,5	mg/m ³
	inhalative	Long term (chronic)	local	1,5	µg/m ³
	inhalative	Short term (acut)	local	2,5	µg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	nitric acid ...% [C ≤ 70 %]			7697-37-2 231-714-2	
	inhalative	Long term (chronic)	local	1,3	mg/m ³
	inhalative	Short term (acut)	local	1,3	mg/m ³
2	Hydrofluoric acid			7664-39-3 231-634-8	
	oral	Long term (chronic)	systemic	0,01	mg/kg/day
	oral	Short term (acut)	systemic	0,01	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,03	mg/m ³
	inhalative	Short term (acut)	systemic	0,03	mg/m ³
	inhalative	Long term (chronic)	local	0,2	mg/m ³
	inhalative	Short term (acut)	local	1,25	mg/m ³

8.2 Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Respiratory protection mask with combination filter ABEK-Hg-NO-CO-P3.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Appropriate Material PELOX® PVC acid protection gloves

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation

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liquid			
Form/Colour			
pasty			
colourless			
Odour			
acid			
pH value			
Value	0	- 1	
Reference temperature		20	°C
Boiling point / boiling range			
Value		100	°C
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	appr.	1,2	g/cm ³
Reference temperature		20	°C
Solubility in water			
Comments	miscible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No data available			
Viscosity			
No data available			
Particle characteristics			
No data available			

9.2 Other information

Other information			
No data available.			

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SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Bases; light metals; glass

10.6 Hazardous decomposition products

None, if handled according to intended use. In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Pelox Beizpaste TS-K 2000
ATE (Mixture)	76,92 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute oral toxicity	
No data available	

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Pelox Beizpaste TS-K 2000
ATE (Mixture)	76,92 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute dermal toxicity	
No data available	

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Pelox Beizpaste TS-K 2000
ATE (Mixture)	5,0524 mg/l
Route of exposure / physical form	Vapour
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	nitric acid ...% [C ≤ 70 %]	7697-37-2	231-714-2
ATE		2,65	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	1272/2008/EC, Annex VI		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Hydrofluoric acid	7664-39-3	231-634-8
Species	rabbit		

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with reference to Method Source Evaluation	5% solution OECD 404 ECHA corrosive
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Serious eye damage/irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	Hydrofluoric acid	7664-39-3	231-634-8
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity
No data available

Carcinogenicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)
No data available

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)
No data available

Toxicity to Daphnia (chronic)
No data available

Toxicity to algae (acute)
No data available

Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

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Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Hydrofluoric acid	7664-39-3	231-634-8
BCF		53	- 58
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	8
Classification code	CT1
Packing group	II
Hazard identification no.	86
UN number	UN2922
Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.
Technical name	nitric acid ...% [C ≤ 70 %] Hydrofluoric acid
Tunnel restriction code	E
Label	8+6.1

14.2 Transport IMDG

Class	8
Subsidiary Risk	6.1
Packing group	II
UN number	UN2922
Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.
Technical name	nitric acid ...% [C ≤ 70 %]

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EmS
Label
Hydrofluoric acid
F-A, S-B
8+6.1

14.3 Transport ICAO-TI / IATA

Class 8
Subrisk 6.1
Packing group II
UN number UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Technical name nitric acid ...% [C ≤ 70 %]
Hydrofluoric acid
Label 8+6.1

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	H2
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15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H272 May intensify fire; oxidiser.

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H300	Fatal if swallowed.
H301	Toxic if swallowed.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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