

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 1/10



Ultrasonic Cleaner PPK

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

1.1. Product identifier

Trade name/designation:

Ultrasonic Cleaner PPK

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Mix of emulsifiers

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

FL-Industrievertretung

Techn. Handel-Industriebedarf

Hafenstr. 44G

D-38112 Braunschweig

Germany

Telephone: +49 531/316800

Telefax: +49 531/316802

E-mail: info@fl-lust.de

Website: www.fl-industrievertretung.de

E-mail (competent person): info@fl-lust.de

1.4. Emergency telephone number

FL-Industrievertretung, 24h: +49 171 4135841, +49 531/316800 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

hazard statements for health hazards

H319 Causes serious eye irritation.

Supplemental hazard information: -

Precautionary statements Prevention

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 2/10



Ultrasonic Cleaner PPK

Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Special rules for supplemental label elements for certain mixtures:

13,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

20,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of substances listed below with nonhazardous additions:

Additional information:

Does not contain substances above concentration limits fixing an occupational exposure limit. Full text of R-phrases: see section 16.

P:15-EC-01.06.57001

< 5% phosphates

< 5% non-ionic surfactants

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1303-96-4 REACH No.: 01-2119490790-32-0000	BORAX <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Repr. 1B (H360FD) Danger Specific concentration limit (SCL) Repr. 1B; H360FD: C ≥ 8.5%	4 - ≤ 7 weight-%
CAS No.: 68425-66-1 EC No.: 270-366-6	Boric acid, compd. with 2,2'-iminobis[ethanol] Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315) Warning	3 - ≤ 5 weight-%
CAS No.: 68439-46-3	Oxoalkohol(C9/11)-5 EO Eye Irrit. 2 (H319) Warning	1 - ≤ 2.99 weight-%
CAS No.: 1554325-20-0	Quartäres C12-14 alkylmethylaminethoxylatmethylchlorid Acute Tox. 4 (H302), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger	1 - ≤ 2 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Medical examination necessary even merely on suspicion of intoxication. **P:04-EC-01.13000**
P:04-EC-01.27000 **P:04-EC-01.14000** In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Remove casualty to fresh air and keep warm and at rest. **P:04-EC-02.17000** **P:04-EC-02.3000**
Provide fresh air. In case of respiratory tract irritation, consult a physician.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 3/10



Ultrasonic Cleaner PPK

In case of skin contact:

In case of skin irritation, consult a physician. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

IF ON CLOTHING: Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

(P:04-EC-04.9000) Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

(P:04-EC-01.8000) Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

Gastrointestinal complaints Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist Foam

Unsuitable extinguishing media:

none

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NOx)

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing Full protection suit Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

(P:06-EC-01.1000) Provide adequate ventilation. See protective measures under point 7 and 8. Remove persons to safety.

Protective equipment:

(P:07-EC-01.01.01.56000) Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

No data available

6.1.2. For emergency responders

Personal protection equipment:

See protective measures under point 7 and 8. Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 4/10



Ultrasonic Cleaner PPK

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

See protective measures under point 7 and 8. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid contact with eyes and skin. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect from moisture.
Keep away from heat.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Requirements for storage rooms and vessels:

Suitable floor material: alkali-resistant Keep container tightly closed.

Hints on storage assembly:

none

Further information on storage conditions:

Protect against: Heat UV-radiation/sunlight Keep container tightly closed and dry.

7.3. Specific end use(s)

Recommendation:

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	BORAX CAS No.: 1303-96-4	① 0.5 mg/m ³ ② 1 mg/m ³ ⑤ (einatembare Fraktion)
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m ³ ⑤ Mass fraction (wt %): 0

8.1.2. Biological limit values

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 5/10



Ultrasonic Cleaner PPK

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
pentapotassium triphosphate CAS No.: 13845-36-8 EC No.: 237-574-9	5.88 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
pentapotassium triphosphate CAS No.: 13845-36-8 EC No.: 237-574-9	1.45 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2. Personal protection equipment

Eye/face protection:

P:08-EC-02.01.01.03.01.2000 DIN-/EN-Norms Eye glasses with side protection EN 166

Skin protection:

Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

P:08-EC-02.01.01.05.14000 Apply skin care products after work. Avoid contact with skin, eyes and clothes.

Hand protection: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. DIN-/EN-Norms For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

NR (natural rubber, natural latex) CR (polychloroprene, chloroprene rubber)

Thickness of the glove material: ≥ 1 mm

Durchdringungszeit (maximale Tragedauer): INDEX-Nr. 2 Tragedauer bei gelegentlichem Kontakt (Spritzer):

> 30 Minuten

INDEX-Nr. 6 Tragedauer bei permanentem Kontakt

>480 Minuten Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Respiratory protection necessary at: insufficient ventilation Suitable respiratory protection apparatus:P2 If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures:

Protective clothing: Suitable protective clothing: Chemical protection clothing DIN-/EN-Norms Protective clothing EN 465

General health and safety measures: When using do not eat or drink.Keep away from food, drink and animal feedingstuffs.Take off immediately all contaminated clothing.Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls

Product related measures to prevent exposure Further information: see technical data sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: not determined

Odour: not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5



Page 6/10

Ultrasonic Cleaner PPK

Safety relevant basis data

parameter		at °C	Method	Remark
pH	7 - 9	20 °C		Gehalt an gelöster Substanz: 1%
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>		No data available	
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>		Non-flammable.	
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>		No data available	
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>		No data available	
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>		not determined	
Dynamic viscosity	<i>not determined</i>		No data available	
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Keine Daten verfügbar

10.6. Hazardous decomposition products

No data available

Further information

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 7/10



Ultrasonic Cleaner PPK

SECTION 11: Toxicological information

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

Substance name	Toxicological information
BORAX CAS No.: 1303-96-4	LD₅₀ oral: 5,000 mg/kg (Rat) LD₅₀ dermal: 10,000 mg/kg (Rabbit)
Boric acid, compd. with 2,2'-iminobis[ethanol] CAS No.: 68425-66-1 EC No.: 270-366-6	LD₅₀ oral: >2,000 mg/kg
Oxoalkohol(C9/11)-5 EO CAS No.: 68439-46-3	LD₅₀ oral: >2,000 mg/kg (Ratte)
Quartäres C12-14 alkylmethylaminethoxylatmethylchlorid CAS No.: 1554325-20-0	LD₅₀ oral: >300 - =2,000 mg/kg (Rat)

Acute oral toxicity:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Irritating to skin. Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

Carcinogenicity:

No data available Based on available data, the classification criteria are not met.

Reproductive toxicity:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

STOT-single exposure:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

Aspiration hazard:

Keine Daten verfügbar Based on available data, the classification criteria are not met.

Additional information:

Specific symptoms in animal studies:

Repeated dose toxicity (subacute, subchronic, chronic):

Other information:

Observations relevant to classification:

Other observations:

Other information: No data available

11.2. Information on other hazards

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 8/10



Ultrasonic Cleaner PPK

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
BORAX CAS No.: 1303-96-4	EC₅₀ : 15.4 mg/l 4 d (Algae/water plant) Gestis Stoffdatenbank LC₅₀ : 141 mg/l 2 d (crustaceans) Gestis Stoffdatenbank
Boric acid, compd. with 2,2'-iminobis[ethanol] CAS No.: 68425-66-1 EC No.: 270-366-6	EC₅₀ : 100 mg/l (Daphnien)
Oxoalkohol(C9/11)-5 EO CAS No.: 68439-46-3	LC₅₀ : >1 - 10 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203 EC₅₀ : >1 - 10 mg/l 2 d (Daphnia magna) EC₅₀ : >1 - 10 mg/l 3 d (Algae/water plant, Skeletonema costatum)
Quartäres C12-14 alkylmethylaminethoxylatmethylchlorid CAS No.: 1554325-20-0	LC₅₀ : >10 - 100 mg/l 4 d (Fisch) EC₅₀ : >1 - 10 mg/l 2 d (crustaceans, Daphnia pulex (water flea)) EC₅₀ : >1 - 10 mg/l 3 d (Algae/water plant, Algen)

Effects in sewage plants:

Do not allow to enter into surface water or drains.

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
BORAX CAS No.: 1303-96-4	Yes, rapidly	
Boric acid, compd. with 2,2'-iminobis[ethanol] CAS No.: 68425-66-1 EC No.: 270-366-6	Yes, rapidly	Bioaccumulative potential: No indication of bioaccumulation potential.
Oxoalkohol(C9/11)-5 EO CAS No.: 68439-46-3	Yes, rapidly	
Quartäres C12-14 alkylmethylaminethoxylatmethylchlorid CAS No.: 1554325-20-0	Yes, rapidly	OECD Prüfrichtlinie 301D

Additional information:

Further ecological information: No data available

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No data available; Additional information: No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
BORAX CAS No.: 1303-96-4	—
Boric acid, compd. with 2,2'-iminobis[ethanol] CAS No.: 68425-66-1 EC No.: 270-366-6	—
Oxoalkohol(C9/11)-5 EO CAS No.: 68439-46-3	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Quartäres C12-14 alkylmethylaminethoxylatmethylchlorid CAS No.: 1554325-20-0	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 9/10



Ultrasonic Cleaner PPK

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Chemical oxygen demand (COD): No data available

Biochemical oxygen demand: No data available

AOX: No data available No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate authorities about waste disposal. The allocation of waste identity numbers/ waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Recycling possible after special treatment. Waste for disposal is to be classified and labelled. Methods for cleaning up Water (with cleaning agent) Completely emptied packages can be recycled.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information:

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 3.5

Page 10/10



Ultrasonic Cleaner PPK

15.1.2. National regulations

 [DE] National regulations

Water hazard class

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.