

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

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

1.1. Product identifier

Ultrasonic cleaner JE Ultra 23

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

Use of the substance/preparation

Galvanic pre-treatment, Cleaning process, do not use for private purposes, Food, beverages and animal feed.

Identified Uses

PC14 Metal surface treatment products, including galvanic and electroplating products

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Jentner Plating Technology GmbH

Johann-Staib-Straße 2

75179 Pforzheim

Telephone no. +49 (0)7231/4180940

Information provided by / telephone Laboratory department; Opening hours 8:00-16:00

E-mail address of person responsible sales@jentner.de

for this SDS

1.4. Emergency telephone number

Poisoning Information Center Freiburg: +49(0)761/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Dam. 1 H318

Repr. 1B H360FD

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H360FD May damage fertility. May damage the unborn child.

Precautionary statements

P201 Obtain special instructions before use.
 P264.1 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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 or doctor.
 P501.1 Dispose of contents/container to industrial incineration plant.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Tetrasodium pyrophosphate; Alcohols, C9-11-iso-, C10-rich, ethoxylated ;
 Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine;
 disodium tetraborate pentahydrate

Supplemental information**Further supplemental information**

Restricted to professional users

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Tetrasodium pyrophosphate**

CAS No. 7722-88-5
 EINECS no. 231-767-1
 Registration no. 01-2119489794-17-XXXX
 Concentration \geq 25 < 50 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Eye Dam. 1 H318

ATE oral 300 mg/kg

disodium tetraborate pentahydrate

CAS No. 12179-04-3
 EINECS no. 215-540-4
 Concentration \geq 25 < 50 %
 Classification (Regulation (EC) No. 1272/2008)
 Repr. 1B H360FD

Concentration limits (Regulation (EC) No. 1272/2008)
 Repr. 1B H360F \geq 6,5 %
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Alcohols, C9-11-iso-, C10-rich, ethoxylated

CAS No. 78330-20-8
 Concentration \geq 1 < 3 %

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318

Acute Tox. 4 H302

ATE oral 300 mg/kg

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

CAS No. 121617-08-1

Registration no. 01-2119971970-28

Concentration ≥ 1 < 3 %

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314

Eye Dam. 1 H318

Aquatic Chronic 3 H412

Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

disodium tetraborate pentahydrate

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry powder

Non suitable extinguishing media

Full water jet

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Knock down dust with water spray jet. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Avoid raising dust. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Perform filling operations only at stations with exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Avoid the formation and deposition of dust. Dust deposits that cannot be avoided must be taken up regularly. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510

6.1D

Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Tetrasodium pyrophosphate

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	= 4,35	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	= 17,63	mg/m ³

disodium tetraborate pentahydrate

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	= 0,79	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	= 3,4	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	= 6,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	= 17,04	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

Concentration	=	17,04	mg/m ³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker
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Duration of exposure	Short term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	=	17,04	mg/m ³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker
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Duration of exposure	Long term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	=	17,04	mg/m ³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	General Population
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Duration of exposure	Long term
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Route of exposure	dermal
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Mode of action	Systemic effects
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Concentration	=	159,5	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker
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Duration of exposure	Long term
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Route of exposure	dermal
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Mode of action	Systemic effects
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Concentration	=	316,4	mg/kg/d
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Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

Type of value	Derived No Effect Level (DNEL)
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Reference group	General Population
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Duration of exposure	Long term
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Route of exposure	oral
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Mode of action	Systemic effects
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Concentration	=	0,58	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	General Population
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Duration of exposure	Long term
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Route of exposure	dermal
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Mode of action	Systemic effects
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Concentration	=	1,2	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker
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Duration of exposure	Long term
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Route of exposure	inhalative
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Mode of action	Systemic effects
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Concentration	=	4,1	mg/m ³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker
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Duration of exposure	Long term
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Route of exposure	dermal
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Mode of action	Systemic effects
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Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

Concentration	=	5,29	mg/kg/d
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Predicted No Effect Concentration (PNEC)**Tetrasodium pyrophosphate**

Type of value	PNEC	
Type	Freshwater	
Concentration	=	0,05 mg/l
Method	Assessment factors	

Type of value	PNEC	
Type	Saltwater	
Concentration	=	5 µg/l
Method	Assessment factors	

disodium tetraborate pentahydrate

Type of value	PNEC	
Type	Freshwater	
Concentration	=	2,9 mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	=	2,9 mg/l

Type of value	PNEC	
Type	Soil	
Concentration	=	5,7 mg/kg

8.2. Exposure controls**General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Dust mask

Hand protection

Chemical resistant gloves
Appropriate Material neoprene

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

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

Physical state	solid
Colour	white
Odour	odourless
Melting point	
Remarks	not determined

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Remarks Not applicable

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value	=	9,2	
Concentration/H ₂ O		5	%

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours, Toxic gases/vapours

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1.132,07	mg/kg
	55	

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**Tetrasodium pyrophosphate**

Species	rat (female)			
LD50	> 300	to	2000	mg/kg
Method	OECD 420			

Alcohols, C9-11-iso-, C10-rich, ethoxylated

Species	rat			
LD50	> 300	to	2000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)			

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Tetrasodium pyrophosphate**

Species	rabbit			
LD50	> 2000			mg/kg
Method	EPA			

Alcohols, C9-11-iso-, C10-rich, ethoxylated

Species	guinea pig			
LD50	> 2000			mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)			
Source	BASF-Test			

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Tetrasodium pyrophosphate**

Species	Rats (male/female)			
LC50	> 0,58			mg/l
Duration of exposure	4	h		

Skin corrosion/irritation

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

evaluation

irritant

Remarks

The classification criteria are met.

Serious eye damage/irritation

evaluation

corrosive

Remarks

The classification criteria are met.

Sensitization

Remarks

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

Subacute, subchronic, chronic toxicity

Remarks

not determined

Mutagenicity

Remarks

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

Reproductive toxicity

Remarks

The classification criteria are met.

Carcinogenicity

Remarks

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

Specific Target Organ Toxicity (STOT)**Single exposure**

Remarks

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

Repeated exposure

Remarks

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation of dusts may irritate the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

12.2. Persistence and degradability**General information**

not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks

not determined

12.4. Mobility in soil

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

General information

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
Label			
14.4. Packing group	-	-	-

SECTION 15: Regulatory information

Trade name: Ultrasonic cleaner JE Ultra 23

Version: 1 / WORLD

Date revised: 20.05.2025

Substance number: 358.0000

Replaces Version: - / WORLD

Print date: 20.05.2025

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

Other information

The product contains substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Repr. 1B	H360FD	Calculation method

Hazard statements listed in Chapter 2/3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.