

## SAFETY DATA SHEET

**Ultrasonic cleaning solution for sensitive metals**

Part No.: AS-SENS Solution

### Description:

A concentrated cleaner and degreaser formulated to aid cleaning in ultrasonic baths. It is safe to use on all metals including brass, aluminium, copper, zinc, tin and alloys. It quickly removes grease, oil, lubricants and grime from surfaces and emulsifies them into the solution.

- ✓ Safe to use on most sensitive metals.
- ✓ Deep cleans removing dirt and oxidation.
- ✓ Excellent stain remover.
- ✓ Economical to use.
- ✓ For professional and amateur use.

### Directions

Concentrate has to be added in ratio 10% to water. Operating temperature of bath should be set between 50 – 60°C.

For home and professional use normal tap water can be used for cleaning. For excellent cleaning you may use deionized, demineralized or distilled water, as Calcium carbonate and other impurities in tap water can reduce the cleaning properties of the solutions and produce undesirable deposit (lime scale). Always test before use on new applications.

After cleaning rinse all surfaces thoroughly with clean water. The bath should be changed regularly when the solution becomes dirty.

## Section 1: Identification of the substance/mixture and company/undertaking

### 1.1. Product identifier

Product name: ULTRASONIC CLEANER FOR SENSITIVE METALS

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

Use of substance / mixture: PC35: Washing and cleaning products (including solvent based products).

### 1.3. Details of the supplier of the safety data sheet

Company name: Avene d.o.o.  
Tržaška cesta 134  
1000 Ljubljana  
Slovenia, EU  
Tel: +386 41 566 618  
E-mail: [prodaja\(at\)avene.si](mailto:prodaja(at)avene.si)

Emergency telephone number: +386 41 566 618 (office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe skin burns and eye damage.

### 2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements:

P260: Do not breathe fumes/gas/mist/vapours/spray.

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

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

**P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous ingredients:

2-BUTOXYETHANOL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%

ALCOHOLS, C12-13- BRANCHED AND LINEAR, ETHOXYLATED (>5 - <15 EO)

931-954-4	160901-19-9	-	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 3: H412	1-10%
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PROPAN-2-OL

200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	1-10%
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DISODIUM METASILICATE

229-912-9	6834-92-0	-	Skin Corr. 1B: H314; STOT SE 3: H335	1-10%
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2-AMINOETHANOL

205-483-3	141-43-5	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314	<1%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the

affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink. Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:**

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

### 5.3. Advice for fire fighters

**Advice for fire fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

## 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using binding.

## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Clean up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

# Section 7: Handling and storage

## 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well-ventilated area. Keep container tightly closed.

## 7.3. Specific end use(s)

**Specific end use(s):** No data available.

# Section 8: Exposure controls/personal protection

## 8.1. Control parameters

**Hazardous ingredients:**

2-BUTOXYETHANOL

**Workplace exposure limits:** Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
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UK	25 ppm	50 ppm	-	-
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## PROPAN-2-OL

UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-
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## 2-AMINOETHANOL

UK	2.5 mg/m <sup>3</sup>	7.6 mg/m <sup>3</sup>	-	-
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DNEL/PNEC Values DNEL / PNEC No data available.

## 8.2. Exposure controls

<b>General protective and hygienic measures:</b>	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/ fumes / aerosols. Avoid contact with the eyes and skin. *
<b>Engineering measures:</b>	Ensure there is sufficient ventilation of the area.
<b>Respiratory protection:</b>	Self-contained breathing apparatus must be available in case of emergency. Must comply to EN137*
<b>Hand protection:</b>	Protective gloves – Rubber Gloves (EN 374-2) * 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 cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. 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. *
<b>Eye protection:</b>	Tightly fitting safety goggles. Ensure the goggles have the relevant markings on them showing which aspect of EN166 they conform to. Ensure eye bath is to hand. *
<b>Skin protection:</b>	Protective clothing - ensure they are suitable for working with liquid chemicals. *

PERSONAL PROTECTIVE EQUIPMENT SYMBOL(S) \*



## 1. Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State:	Liquid		
Colour:	Colourless		
Odour:	Characteristic odour		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	Miscible in all proportions		
Viscosity:	Non-viscous		
Boiling point/range °C:	>35*	Melting point/range °C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point °C:	>60*	Part.coeff. n-octanol/water:	No data available.
Auto flammability °C:	No data available.	Vapour pressure:	No data available.
Relative density:	No data available.	pH:	>11.5
VOC g/l:	No data available.		

### 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

## 10.4. Conditions to avoid

Conditions to avoid: Heat.

## 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Hazardous ingredients:

2-BUTOXYETHANOL

IVN	RAT	LD50	307	mg/kg
ORL	MUS	LD50	1230	mg/kg
ORL	RAT	LD50	470	mg/kg

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

DISODIUM METASILICATE

ORL	MUS	LD50	770	mg/kg
ORL	RAT	LD50	1153	mg/kg

2-AMINOETHANOL

IVN	RAT	LD50	225	mg/kg
ORL	MUS	LD50	700	mg/kg
ORL	RAT	LD50	1720	mg/kg
SCU	RAT	LD50	1500	mg/kg

Relevant hazards for product:

Hazard	Route	Basis



Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

Eco toxicity values: No data available.

### 12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

### 12.3. Bio accumulative potential

Bio accumulative potential: No bioaccumulation potential.

### 12.4. Mobility in soil

Mobility: Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

Other adverse effects: Negligible Eco toxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

UN number (ADR/RID):	1760*
UN number (IMDG):	1760*
UN number (ICAO):	1760*
UN number (ADN):	1760*

### 14.2. UN proper shipping name

Proper Shipping name (ADR/RID): CORROSIVE LIQUID, N.O.S. (CONTAINS Alcohols, C12 -13 -branched and linear, ethoxylated (>5 - <15 EO)) \*

Proper Shipping name (IMDG): CORROSIVE LIQUID, N.O.S. (CONTAINS Alcohols, C12 -13 - branched and linear, ethoxylated (>5 - <15 EO)) \*

Proper Shipping name (ICAO): CORROSIVE LIQUID, N.O.S. (CONTAINS Alcohols, C12 -13 - branched and linear, ethoxylated (>5 - <15 EO)) \*

Proper Shipping name (ADN): CORROSIVE LIQUID, N.O.S. (CONTAINS Alcohols, C12 -13 - branched and linear, ethoxylated (>5 - <15 EO)) \*

### 14.3. Transport hazard class(es)

ADR/RID class:	8*
ADR/RID classification code:	C9*
ADR/RID label:	8*
IMDG class:	8*
ICAO class/division:	8*
ADN class:	8*

### 14.4. Packing group

ADR/RID group:	II*
IMDG group:	II*
ICAO group:	II*
ADN group:	II*

### 14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

## 15.1

### 14.6. Special precautions for user

Special precautions:	No special precautions.
Tunnel code:	E
Transport category:	

Overland Transport:	Category 2*
Transport by Sea:	Category 2*
Air Transport:	Category 2*
Inland Waterway Transport:	Category 2*
Rail Transport:	Category 2*

## Section 15: Regulatory information

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

Specific regulations: Not applicable.

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 \* indicates text in the SDS, which has changed since the last revision.

### Phrases used in s.2 and s.3:

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

## Contact Details

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