SAFETY DATA SHEET

Ultrasonic cleaning solution for oxidation

Part No.: AS-OXI Solution

A specialist acidic formulation for adding to Ultrasonic baths for removing oxidation from metals including iron, copper, tin, aluminium and stainless steel. It is ideal for engine parts including carburettors, valves, heat exchangers etc. as well as metals that have been in storage. Other applications include oxides resulting from soldering or welding. As well as removing oxides it safely removes contaminants including general soiling, carbon and grease etc. The cleaning process will not damage, corrode or darken most metal components. It is totally biodegradable and phosphate free.

- Safe to use on most metals.
- Acidic formulation specifically for removing oxidation.
- Excellent stain remover.
- For professional and amateur use.

Directions

Concentrate has to be added in ratio 10% to water. Operating temperature of bath should be set between 40 – 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 CLEANING SOLUTION FOR OXIDATION

Product code: AS-OXI-1; AS-OXI-5; AS-OXI-25

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

1.2 Use of substance / mixture: Cleaner concentrate for use in ultrasonic baths

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
Email: prodaja@avene.si

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

Section 2: Hazards identification

Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314
Most important adverse effects: Causes severe skin burns and eye damage.

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.

Other hazards

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

UFI number: NRPK-U7SV-1008-FSXW

Section 3: Composition/information on ingredients

Mixtures

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

EINECS	CAS	CLP CLASSIFICATION	PERCENT
931-954-4	160901-19-9	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 3: H412	1-10%

Section 4: First aid measures

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 every 10 minutes. Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
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.

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.

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

Control parameters

Hazardous ingredients:

Workplace exposure limits: No data available
Dnel / pnec: No data available
Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
Hand protection: Impermeable gloves.
Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection: Impermeable protective clothing.

PERSONAL PROTECTIVE EQUIPMENT SYMBOL(S) *

Section 9: Physical and chemical properties

STATE:	Liquid
COLOUR:	Yellow
ODOUR:	Characteristic odour
EVAPORATION RATE:	No data available.
OXIDISING:	No data available.
SOLUBILITY IN WATER	No data available.
VISCOSITY:	No data available.
BOILING POINT / RANGE°C:	No data available.
FLAMMABILITY LIMITS % LOWER:	No data available.
FLASH POINT°C:	No data available.
AUTOFLAMMABILITY°C:	No data available.
RELATIVE DENSITY:	No data available.
VOC G/L:	No data available.
MELTING POINT / RANGE°C:	No data available.
UPPER:	No data available.
PART.COEFF. N-OCTANOL/WATER:	No data available.
VAPOUR PRESSURE:	No data available.
PH:	<2.0

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:
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

Un number:	UN1760
Shipping name:	corrosive liquid, n.o.s.
Transport class:	8
Packing group:	II
Environmentally hazardous:	no
Special precautions:	No special precautions.
Tunnel code:	E
Transport category:	2

Section 15: Regulatory information

Specific regulations: Not applicable.

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * Indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
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.