

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Heavy duty general purpose ultrasonic concentrate

Part No.: AS-GEN Solution

Description:

A specialist formulation for adding to ultrasonic baths for cleaning metal, ceramic, glass, rubber etc. It safely removes contaminants including dirt, grease, dust, oils etc.

Safe to use on most materials.

- ✓ 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 5%-10% to water dependent on cleaning action required. 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 of the company / undertaking

Product identifier

Trade name: Heavy duty general purpose ultrasonic concentrate
Article number: AS-GEN

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

SU3 Industrial use: Uses of substances as such or in preparations at industrial sites.

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

Product category: PC35 Washing and cleaning products (including solvent based products).

Process category: PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

Environmental release category: ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article).

Application of the substance / the mixture Cleaning agent/ Cleaner

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

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage

Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Trade name: Heavy duty general purpose ultrasonic concentrate

Hazard pictograms:



GHS05

Signal word Danger

Hazard-determining components of labelling:

disodium metasilicate pentahydrate

Alcohol ethoxylate C9 - C11

alkyl C8-C10 polyglucoside

tetra sodium ethylenediaminetetraacetate

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection.

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

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards:

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

CAS: 10213-79-3 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37-xxxx	disodium metasilicate pentahydrate Met. Corr.1, H290; Skin Corr. 1B, H314 Acute Tox. 4, H302; STOT SE 3, H335	5-10%
CAS: 68439-46-3 Polymer Acute Tox. 4, H302	Alcohol ethoxylate C9 - C11 Eye Dam. 1, H318	5-10%
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36-xxxx	alkyl C8-C10 polyglucocide Eye Dam. 1, H318	2.5-5%
CAS: 68608-68-4 EINECS: 271-795-1	β-Alanine, N-coco alkyl derivs., sodium salts Eye Irrit. 2, H319	1-2.5%
CAS: 64-02-8 EINECS: 200-573-9 Reg.nr.: 01-2119486762-27-xxxx	tetra sodium ethylenediaminetetraacetate STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332	1-2.5%

Ingredients according to Detergents Regulation 648/2004/EC

For the wording of the listed hazard phrases refer to section 16.

Non-ionic surfactants	≥5 - <15%
Amphoteric surfactants, EDTA and salts thereof	<5%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, universal binders).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide (0%)

WEL (Great Britain) Short-term value: 2 mg/m³

DNELs

68515-73-1 alkyl C8-C10 polyglucocide

Oral	DNEL Long term-systemic	35.7 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	357,000 mg/kg human/day (consumer) 595,000 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m ³	124 mg/m ³ (consumer) 420 mg/m ³ (worker)

64-02-8 tetra sodium ethylenediaminetetraacetate

Oral	DNEL Long term-systemic	28 mg/kg human/day (consumer)
Inhalative	DNEL Acute-systemic mg/m ³	1.7 mg/m ³ (consumer) 2.8 mg/m ³ (worker)

PNECs

68515-73-1 alkyl C8-C10 polyglucocide

PNEC Freshwater mg/L	0.1 mg/L (-)
PNEC Marine water mg/L	0.01 mg/L (-)
PNEC Freshwater sediment	0.487 mg/Kg (-)
PNEC Marine water sediment	0.048 mg/Kg (-)
PNEC Intermittent release	270 (-) (mg/L)
PNEC Soil	0.654 mg/Kg (-)
PNEC Sewage treatment Plant mg/L	560 mg/L (-)

64-02-8 tetra sodium ethylenediaminetetraacetate

PNEC Freshwater mg/L	2.8 mg/L
PNEC Marine water mg/L	0.28 mg/L
PNEC Intermittent release	1.6 (mg/L)

PNEC Soil	0.95 mg/Kg
PNEC Sewage treatment Plant mg/L	57 mg/L

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment: Not required.

General protective and hygienic measures:

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.
Avoid contact with the eyes and skin.

Respiratory protection:

Not required

Protection of hands:



Protective gloves

Rubber gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the gradation.

Material of gloves

Rubber gloves

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.

Penetration time of glove material

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.

Not suitable are gloves made of the following materials: Strong material gloves

Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Colour: Light yellow
Odour: Characteristic
Odour threshold: Not determined.

pH-value at 20 °C: 11.4

Change in condition

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 100 °C
Flash point: Not applicable.
Flammability (solid, gas): Not applicable.
Decomposition temperature: Not determined.
Auto-ignition temperature: Product is not self igniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapour pressure at 20 °C: 23 hPa
Density at 20 °C: 1.1 g/cm³
Relative density: Not determined.
Vapour density: Not determined.
Evaporation rate: Not determined.
Solubility in / Miscibility with water: Fully miscible.
Partition coefficient: n-octanol/water: Not determined.
Viscosity:
Dynamic: Not determined.
Kinematic: Not determined.

Solvent content:

Swiss VOC: 0.00 %

Solids content: 14.6 %

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

LD/LC50 values relevant for classification:

10213-79-3 disodium metasilicate pentahydrate

Oral LD50 >1,000 mg/kg (Rat)

LC50 / 96 h >200 mg/ltr (Daphnia magna (water flea))

68439-46-3 Alcohol ethoxylate C9 - C11

Oral LD50 1,400 mg/kg (Rat)
Dermal LD50 2,000 mg/kg (Rat)

68515-73-1 alkyl C8-C10 polyglucocide

Dermal LD50 >2,000 mg/kg (Rat)

64-02-8 tetra sodium ethylenediaminetetraacetate

Oral LD50 1,560 mg/kg

Inhalative LC50 / 4 h >1,000 mg/ltr
2 mg/ltr (Rat)

LC50 / 96 h >1,000 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish))
33-189 mg/ltr (fish)

EC 50 / 48 h 140 mg/ltr (Daphnia magna (water flea))

EC 50 / 72 H >300 (Desmodesmus subspicatus) (mg/L)

Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

Other information: The product is biodegradable.

12.3 Bio accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or not neutralised.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Disposal must be made according to official regulations

Uncleaned packaging:

Recommendation: Dispose of packaging according to regulations on the disposal of packaging.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Void

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

UN "Model Regulation": Void

SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;
Reg. (EC) n. 1907/2006 – Reach;
Reg. (EC) n. 2015/830 annex II of REACH;
Reg. (EC) n. 648/04 (Detergents);
Reg. (EC) n. 528/12 (Biocides BPR);
Reg. (EC) n. 1223/2009 (Cosmetics);
Dir. 06/08 ADR – RID - IMDG - IATA;
Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);
Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio accumulative and Toxic
vPvB: very Persistent and very Bio accumulative
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
*** Data compared to the previous version altered.**

Annex: Exposure scenario

Short title of the exposure scenario
For the finished product.
Heavy duty general purpose ultrasonic concentrate

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC35 Washing and cleaning products (including solvent based products)

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use

Duration and frequency

5 workdays/week

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture
The substance is main component.

Used amount per time or activity

According to directions for use.

Other operational conditions

Other operational conditions affecting environmental exposure

No special measures required.

Other operational conditions affecting worker exposure

Avoid contact with eyes.
Avoid contact with the skin.

Other operational conditions affecting consumer exposure

No special measures required.

Other operational conditions affecting consumer exposure during the use of the product

Not applicable.

Risk management measures

Worker protection

Organisational protective measures

No special measures required.

Technical protective measures

Ensure that suitable extractors are available on processing machines

Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Protective gloves

Rubber gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Measures for consumer protection Ensure adequate labelling.

Environmental protection measures

Water

No special measures required.

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Disposal measures

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste type

Partially emptied and uncleaned packaging

Exposure estimation

Consumer

Not relevant for this Exposure Scenario.

Guidance for downstream users

No further relevant information available.

Contact Details

Avene d.o.o.
Tržaška cesta 134
1000 Ljubljana
Slovenia

Tel: +386 41 566618
E-mail: [prodaja\(at\)avene.si](mailto:prodaja(at)avene.si)
www.asonic-ultrasoniccleaners.com