

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: AS-METALECO concentrate for ultrasonic cleaning

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

Important identified uses: Alkaline cleaner.

Use not recommended: Do not mix with other agents (detergents, cleaners).

1.3. Details of the supplier of the safety data sheet

Supplier:

ASONIC d.o.o.

Tržaška cesta 134, 1000 Ljubljana, Slovenia

Tel.: +386 41 566618

e-mail: order@asonic.si

1.4. Emergency telephone number

Additional information is available on the telephone number from 08:00 until 15:00 + 386.41.566618.

The nearest health center.

In the event of danger to life, call local emergency number.

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1907/2006 1272/2008 (CLP)

The product is not classified, according to the CLP regulation.

2.2 Label elements

2.2.1. Labeling in accordance with Regulation (EC) No 1272/2008 [CLP]

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2.2.2. Contains:

Triethanolamine (CAS: 102-71-6, EC: 203-049-8)

2.2.3. Special warnings

Not regarded as health or environment hazard under current legislation.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Mixture of substances listed below with nonhazardous additions.

3.2. Mixtures

Name	CAS EC	%	Classification according to Regulation (EC) No 1907/2006 1272/2008 (CLP)
Triethanolamine	102-71-6 203-049-8	2.5-10%	substance with a Community workplace exposure limit
non-ionic surfactants, amphoteric surfactants	-	<5%	/

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General remarks:

Do not give anything to eat or drink to an unconscious victim. Place the victim in a lateral position and ensure airway patency. Show the doctor the safety data sheet or label. If in doubt or feeling unwell, seek medical attention. Do not intervene if you risk your health and if you are not properly trained. If harmful vapors / vapors are still present in the air, the use of respiratory protection (mask; self-contained breathing apparatus) is mandatory. Rinse contaminated clothing with water before removal or use gloves. Providing mouth-to-mouth resuscitation can be dangerous for the person providing first aid.

After inhalation:

Transfer victim to fresh air - leave contaminated area. If the victim is unconscious, place him in a stable lateral position and seek medical attention. Seek medical attention immediately. In case of uneven breathing or respiratory arrest, provide artificial respiration to the victim. Let rest in a position that facilitates breathing.

After skin contact:

Wash the parts of the body that have come into contact with the preparation with plenty of water. Seek medical attention immediately! Remove contaminated clothing and footwear.

After eye contact:

After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Seek medical attention immediately! Rinse open eyes, even under the eyelids, immediately with plenty of running water.

After ingestion:

Do not induce vomiting! Show the doctor the safety data sheet or label. Seek medical attention immediately! Rinse mouth thoroughly with water. Do not put anything in the mouth of an unconscious person.

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

Inhalation:

Excessive exposure to mists or vapors may cause respiratory irritation.

In contact with skin:

Skin burns: Signs / symptoms may include localized redness, swelling, itching, dryness, blisters.

In eye contact:

Redness, pain, burning sensation, tearing, can cause permanent eye damage.

Ingestion:

May cause abdominal pain.

May cause nausea / vomiting and diarrhea.

If swallowed, it can cause burns in the mouth and throat, as well as perforation of the esophagus and stomach.

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

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media**Suitable extinguishing media:**

Carbon dioxide CO₂, extinguishing powder, water jet, alcohol-resistant foam.

Inadequate extinguishing media:

Direct water jet.

5.2. Special hazards arising from the substance or mixture**Hazardous combustion products:**

In case of fire, toxic gases may be formed; prevent inhalation of gases / smoke.

5.3. Advice for firefighters**Protective measures:**

Do not breathe fumes / gases generated by fire or heating. Do not intervene if you risk your health and if you are not properly trained.

Protective equipment:

Complete protective clothing (SIST EN 469: 2020), helmet (SIST EN 443: 2008), protective boots (SIST EN 15090: 2012), gloves (SIST EN 659: 2003 + A1: 2008 / AC: 2009) and self-contained breathing apparatus (SIST EN 137: 2006) Show details for.

More information:

Dispose of contaminated fire fighting water and fire residues in accordance with official regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For untrained staff

Protective equipment

Avoid contact with skin and eyes. Use protective equipment (see item 8).

Emergency procedures

Ensure adequate ventilation. Prevent access to unprotected persons. Take action only if you are trained and can do so safely. Evacuate danger area. Do not breathe vapor / spray. Avoid contact with skin, eyes and clothing.

6.1.2. For rescuers

Use personal protective equipment.

6.2. Environmental protection measures

Prevent release into water / drains / sewers or permeable soils with suitable dams. In case of release into the environment, inform the Administration of the local Country for Civil Protection and Disaster Relief.

6.3. Methods and material for containment and cleaning up

6.3.1. To hold back

Spill the dam if it does not pose a risk.

6.3.2. For cleaning

Absorb the product with inert material (absorbent, sand), collect it in special containers and hand it over to an authorized waste collector. Clean the contaminated area with plenty of water. Ventilate the space. Avoid discharge into drains, watercourses, basements or enclosed spaces.

6.3.3. Other information

No information.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Fire prevention measures

Ensure good ventilation.

Measures to prevent the formation of aerosols and dust:

Provide local extraction (ventilation), where there is a possibility of inhalation of vapors and aerosols.

Environmental protection measures:

Do not empty into drains, surface water or soil. Close the package tightly immediately after use.

7.1.2. Tips on general occupational hygiene

Do not eat, drink or smoke during work. Do not breathe vapor / spray. Take care of personal hygiene (washing hands before breaks and at the end of work). Avoid contact with skin, eyes and clothing. Remove contaminated clothing and clean before reuse. Wear personal protective equipment; see Section 8.

7.2. Conditions for safe storage, including any incompatibilities**7.2.1. Technical measures and storage conditions**

Keep away from food, drink and animal feedingstuffs. Store in a cool, dry and well-ventilated place.

7.2.2. Packaging materials

Store only in the original packaging.

7.2.3. Requirements for storage rooms and vessels

Close open containers tightly after use and place upright to prevent leakage / spillage. Do not store in unlabelled packaging.

7.2.4. Storage class

Storage class: 12

7.2.5. Additional information on storage conditions

Protect from frost.

7.3. Special end uses

Recommendations

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Industry-specific solutions

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Monitoring parameters****8.1.1. Occupational exposure limits**

Name (CAS)	Limit values
	Mg/m ³
Triethanolamine (102-71-6)	5

8.1.2. Information on monitoring procedures

SIST EN 482: 2012 + A1: 2016 Occupational exposure - General requirements for measurements of chemical agents. SIST EN 689: 2018 + AC: 2019 Occupational exposure - Measurement of inhalation exposure to chemical agents - Occupational exposure testing strategy for occupational exposure (including AC correction).

8.2. Exposure controls

8.2.1. Appropriate technical and technological control

Measures related to the substance / mixture to prevent exposure during identified uses

Do not breathe vapors / aerosols. Take care of personal hygiene - wash your hands before breaks and after work. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke during work. Avoid contact with skin, eyes and clothing. Personal protective equipment is only required in the case of large packages (packages not suitable for households). Follow the recommendations on the product label for general consumer use.

Organizational measures to prevent exposure

Remove contaminated clothing immediately and clean before reuse. Provide eyewash and water showers.

Technical measures to prevent exposure

Provide good ventilation and local extraction in places with increased concentration. Keep away from food, drink and animal feedingstuffs.

8.2.2. Personal protective equipment

Eye and face protection

Wear tight-fitting safety goggles and / or face shield (SIST EN 166: 2002).

Hand protection

Protective gloves (SIST EN ISO 374-1: 2017 / A1: 2018). The penetration time is determined by the manufacturer of the protective gloves and must be observed. Follow the manufacturer's instructions for use, storage, maintenance and replacement of gloves. When damage or the first signs of wear appear, the gloves must be replaced immediately. The choice of suitable gloves depends not only on the material but also on other quality criteria that differ from manufacturer to manufacturer.

Material: nitrile and polyurethane. Thickness: min. 0.23 mm. Breakthrough time: min. 480 min.

Material: latex. Thickness: min. 0.40 mm. Breakthrough time: min. 480 min.

Skin protection

Cotton protective work clothing and footwear covering the entire foot (SIST EN ISO 20345: 2012). Wear chemically resistant clothing (SIST EN ISO 6530: 2005) and boots (SIST EN ISO 20345: 2012) in case of more intense exposure.

Respiratory protection

In case of insufficient ventilation, wear respiratory protection. Wear suitable respiratory respirator (SIST EN 136: 1998 / AC: 2004) with combined filter A2-P2 (SIST EN 14387: 2004 + A1: 2008). For dust / gas / vapor concentrations above the applicable filter limit, for oxygen concentrations below 17% or in unclear conditions, use self-contained closed-circuit breathing apparatus according to SIST EN 137: 2006, SIST EN 138: 1996.

Thermal hazard

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8.2.3. Environmental exposure controls**Technical measures to prevent exposure**

Avoid release to waterways, sewers or groundwater.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Information on basic physical and chemical properties	Value / Unit / Method
State of matter	Fluid
Color	Yellowish
Smell	Characteristic

Information relevant to human health, safety and the environment

pH	ca. 9 at 20 ° C
melting point / freezing point	No information
initial boiling point and boiling range	No information
flash point	No information
evaporation rate	No information
flammability (solid, gaseous)	No information
vapor pressure	No information
vapor density	No information
relative density	Density: 1.04 – 1.06 g/cm ³ at 20°C
solubility	water: fully miscible
Partition coefficient	No information
Auto-ignition temperature	The product is not selfigniting.
Decomposition temperature	No information
Viscosity	No information
Explosive properties	Product does not present an explosion hazard.
Oxidizing properties	No information

9.2. Other information

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SECTION 10. STABILITY AND REACTIVITY**10.1. Reactivity**

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10.2. Chemical stability

Stable under normal use and in accordance with operating / handling / storage instructions (see Section 7).

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Follow the instructions for use and storage.

10.5. Incompatible materials

Acids. Do not mix with other chemicals (detergents, cleaners).

10.6. Hazardous decomposition products

No hazardous decomposition products are expected under normal use. Burning / explosion releases gases that pose a health hazard.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	route of exposure	type	species	value
Triethanolamine (102-71-6)	orally	LD50	Rat	8.000 mg/kg

(b) Other

- Skin corrosion/irritationBased on available data, the classification criteria are not met.
- Serious eye damage/irritationBased on available data, the classification criteria are not met.
- Respiratory or skin sensitisationBased on available data, the classification criteria are not met.
- Germ cell mutagenicityBased on available data, the classification criteria are not met.
- CarcinogenicityBased on available data, the classification criteria are not met.
- Reproductive toxicityBased on available data, the classification criteria are not met.
- STOT-single exposureBased on available data, the classification criteria are not met.
- STOT-repeated exposureBased on available data, the classification criteria are not met.
- Aspiration hazardBased on available data, the classification criteria are not met.
- Endocrine disrupting properties: None of the ingredients is listed.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Results of PBT and vPvB assessment:
PBT:Not applicable.
vPvB:Not applicable.
- Endocrine disrupting propertiesThe product does not contain substances with endocrine disrupting properties.

12.7. More information

For the product

Do not allow to enter ground water, water course or sewage system. The preparation is not classified as dangerous for the environment.

For ingredients**Substance: potassium hydroxide**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste management methods**13.1.1. Disposal of products / packaging****Removal of product residues**

Smaller quantities can be disposed of with household waste.

Waste numbers / waste codes according to the waste list (LoW)

06 02 99 - Other wastes of this kind

Packaging

Uncleaned packaging is hazardous waste - treat it in the same way as a waste product. Dispose of completely emptied packaging to an authorized packaging waste management company.

Waste numbers / waste codes according to the waste list (LoW)

12 03 01 - aqueous washing liquids

13.1.2. Data related to waste management

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13.1.3. Data related to sewage disposal

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13.1.4. Other disposal recommendations

· Uncleaned packaging:

Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

not relevant

14.2. Proper UN shipping name

ADR, RID, IMDG, ADN, IATA: Not classified as dangerous goods in accordance with the regulations on the transport of dangerous goods.

14.3. Transport hazard classes

not relevant

14.4. Packaging group

not relevant

14.5. Environmental hazards

NO

14.6. Special precautions for user

not relevant

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

not relevant

SECTION 15. REGULATORY INFORMATION

15.1. Substance / mixture specific health, safety and environmental regulations / legislation

Regulation (EC) No Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency and amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 2454/93 793/93 and Commission Regulation (EC) No 1488/94 and Council Directive 76/769 / EEC and Commission Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC (amendment of Commission Regulation (EU) No 830/2015) - with amendments

Regulation (EC) No Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) No 1234/2007 1907/2006 - as amended

Chemicals Act / ZKem /

Decree on waste (Official Gazette of the Republic of Slovenia, No. 37/15 and 69/15)

Decree on the management of packaging and packaging waste (Official Gazette of the Republic of Slovenia, No. 84/06, 106/06, 110/07, 67/11, 68/11 - amended, 18/14, 57/15, 103/15 , 2/16 - corr., 35/17, 60/18 and 68/18)

Decision on the publication of Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road / ADR /

Rules on the protection of workers from the risks related to exposure to chemical substances at work (Official Gazette of the Republic of Slovenia, Nos. 100/01, 39/05, 53/07, 102/10, 43/11 - ZVZD-1, 38/15, 78 / 18 in 78/19)

Rules on the protection of workers from the risks related to exposure to carcinogens or mutagens
(Official Gazette of the Republic of Slovenia, Nos. 101/05, 43/11 - ZVZD-1, 38/15 and 79/19)

NoDecree.33/18) on the implementation of the Regulation (EU) on personal protective equipment
(Official Gazette of the Republic of Slovenia,

List of harmonized standards for personal protective equipment (C 412 / 11.12.2015, with all amendments)

Occupational Safety and Health Act (Official Gazette of the Republic of Slovenia No. 43/2011)

15.1.1. Information according to Directive 2004/42 / EC on the limitation of emissions of volatile organic compounds (HOS guideline)
not relevant

15.1.2. Special instructions

Observe regulations on employment and protection against hazardous substances for young people, pregnant women and nursing mothers.

15.2. Chemical safety assessment

A supplier has not performed a chemical safety assessment for this substance / mixture.

SECTION 16. OTHER INFORMATION

Changes to the safety data sheet

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Abbreviations and acronyms

ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR = Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute toxicity assessment

BCF = Bioconcentration factor

CAS = Characteristic number of substances already detected according to the International Chemical Abstract Service

CEN = European Committee for Standardization

CLP = Regulation on Classification, Labeling and Packaging of Substances and Mixtures; Regulation (EC) No 1272/2008

CMR = Substance which is carcinogenic, mutagenic or toxic to reproduction

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived level with minimal effect

DNEL = Derived level without effect

DSD = Dangerous Substances Directive 67/548 /

EEC ECHA = European Chemicals Agency

EINECS = European list of chemical substances on the market

ELINCS = European list of new substances

EN = European standard
EQS = EC Environmental Quality
Standard = European Community
EU = European Union
EWC = European waste catalog (replaced by LoW - see below) GES = General exposure scenario
GHS = Globally Harmonized System
IATA = International Air Transport Association
ICAO-TI = Technical Guidelines for the Safe Air Transport of Dangerous Goods
IMDG = International Code for the Carriage of Dangerous Goods by Sea
IMSBC = International Code for the Carriage of Solid Bulk Cargoes by Sea IUCLID = Unified International Chemicals Database
IUPAC = International Union of Pure and Applied Chemistry
Kow = Octanol / Water Partition Coefficient
LC50 = Lethal concentration for 50% of the test population
LD50 = Lethal dose for 50% of the test population (average lethal dose) LoW = Waste list (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
OC = Working conditions
OECD = Organization for Economic Co-operation and Development
OEL = Occupational Exposure Limit CoR = Sole Representative
OSHA = European Agency for Safety and Health at Work
PBT = Persistent substances that accumulate in organisms and are toxic
PEC = Predicted concentration with effect
PNEC = Predicted No Effect Concentration (s)
PPE = Personal Protective Equipment
R and O = Classification and labeling Regulation (EC) No
REACH = Registration, evaluation, authorization and restriction of chemicals 1907/2006
RID = Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP = REACH Implementation Project
RMM = Risk management measure
SCBA = Closed breathing apparatus
SIEF = Substance Information Exchange Forum
STOT = Specific target organ toxicity
SVHC = Substance of very high concern
EC number = EINECS and ELINCS number (see also EINECS and ELINCS)
BW = Body weight
OJ = Official Journal
SDS = Safety Data Sheet
vPvB = A substance that is very persistent and very bioaccumulative

Safety data sheet sources

Product ingredient safety data sheets.

List of relevant H phrases

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

The information provided relates to the current state of our knowledge and experience and relates to the product in the condition in which it is supplied. The purpose of the information is to describe our product in terms of safety requirements. The indications do not constitute any guarantee of the product's characteristics in legal terms. It is the customer's own responsibility to know and comply with the legal provisions regarding the transport and use of the product. Product properties are described in the technical information.