

1 Identification

Product identifier

Trade name: Ultrasonic Cleaner

Article number: 2215

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

No further relevant information available.

Application of the substance / the mixture Cleaning agent/ Cleaner

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

FLEXOCLEAN ENGINEERING B.V.

Bliek 8

NL-4941SG Raamsdonksveer

Tel: +31(0)162-576222

Fax: +31(0)162-576220

E-mail: info@flexoclean.nl

Information department:

Emergency phone (solely for physician in case of poisoning):

+31(0)30-2748888

Emergency phone (other calamities):

+31(0)162-576222

+31(0)20-4496565

Emergency telephone number:

Emergency phone (solely for physician in case of poisoning):

+31(0)30-2748888

Emergency phone (other calamities):

+31(0)162-576222

+31(0)20-4496565

2 Hazard(s) identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not applicable.



C; Corrosive

R35: Causes severe burns.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Label elements

Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

Code letter and hazard designation of product:

C Corrosive

Hazard-determining components of labeling:

potassium hydroxide

Risk phrases:

35 Causes severe burns.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.






vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

1310-58-3	potassium hydroxide	 C R35;  Xn R22	2.5-10%
141-43-5	2-aminoethanol	 C R35;  Xn R20/21/22;  Xi R37	≤ 2.5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

Description of first aid measures

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

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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

After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

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

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

7 Handling and storage

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

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.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

Control parameters

Components with limit values that require monitoring at the workplace:

1310-58-3 potassium hydroxide

REL Ceiling limit value: 2 mg/m³

TLV Ceiling limit value: 2 mg/m³

141-43-5 2-aminoethanol

PEL Long-term value: 6 mg/m³, 3 ppm

REL Short-term value: 15 mg/m³, 6 ppm

Long-term value: 8 mg/m³, 3 ppm

TLV Short-term value: 15 mg/m³, 6 ppm

Long-term value: 7.5 mg/m³, 3 ppm

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

Exposure controls

Personal protective equipment:

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.

Avoid contact with the eyes and skin.

Breathing equipment: Not necessary if room is well-ventilated.

Protection of hands:



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Material of 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 can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

pH-value at 20 °C (68 °F): 13.9

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable.

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

Density at 20 °C (68 °F): 1.078 g/cm³ (8.996 lbs/gal)

Evaporation rate Not determined.

Solubility in / Miscibility with

Water: Fully miscible.

Solvent content:

VOC 2.2 %

Other information No further relevant information available.

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10 Stability and reactivity

Reactivity

Chemical stability

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

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

1310-58-3 potassium hydroxide

Oral	LD50	273 mg/kg (rat)
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Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

111-76-2	2-butoxyethanol	3
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NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

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13 Disposal considerations

Waste treatment methods

Recommendation:

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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

14 Transport information

UN-Number

DOT, ADR, IMDG, IATA UN1719

UN proper shipping name

DOT Caustic alkali liquids, n.o.s. (Potassium hydroxide)
ADR 1719 Caustic alkali liquids, n.o.s. (Potassium hydroxide)
IMDG, IATA CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

Transport hazard class(es)

DOT



Class 8 Corrosive substances
Label 8

ADR, IMDG, IATA



Class 8 Corrosive substances
Label 8

Packing group

DOT, ADR, IMDG, IATA II

Environmental hazards:

Marine pollutant: No

Special precautions for user

Warning: Corrosive substances

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Segregation groups

Alkalis

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

7758-29-4 pentasodium triphosphate

TSCA (Toxic Substances Control Act):

1310-58-3 potassium hydroxide

141-43-5 2-aminoethanol

164462-16-2 Methylglycinediacetic Acid

28348-53-0 sodium cumenesulphonate

527-07-1 sodium gluconate

149-57-5 2-ethylhexanoic acid

111-76-2 2-butoxyethanol

7758-29-4 pentasodium triphosphate

2235-43-0 Sodium ATMP

7732-18-5 water, distilled, conductivity or of similar purity

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

149-57-5 2-ethylhexanoic acid

Carcinogenity categories

EPA (Environmental Protection Agency)

111-76-2 2-butoxyethanol

NL

TLV (Threshold Limit Value established by ACGIH)

111-76-2 2-butoxyethanol

A3

MAK (German Maximum Workplace Concentration)

111-76-2 2-butoxyethanol

4

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:

C Corrosive

Hazard-determining components of labeling:

potassium hydroxide

Risk phrases:

35 Causes severe burns.

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Safety phrases:

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 60 This material and its container must be disposed of as hazardous waste.

National regulations:**Technical instructions (air):**

Class	Share in %
I	0.5
NK	1.7

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

Follow the directions for use on the label.

The information given in this Material Safety Sheet refer to the product described in this sheet, and is provided in the supposition that the product will be used in a proper way and for the purpose indicated by the manufacturer.

It is the responsibility of the user to take advised precautions, and also to make sure that this information is complete and sufficient for the use of the product. It is recommended to pass this information, if necessary, in an adapted form, to personnel and other interested parties.

Flexoclean Engineering B.V. does not carry any responsibility for use of the product, in any way, which is not in accordance with the instructions and the purposes indicated by the manufacturer.

It is forbidden to give this Material Data Sheet to other company's (only approval by Flexoclean Engineering B.V.).

Department issuing MSDS: Product safety department.**Date of preparation / last revision** 02/25/2015 / -

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