

SAFETY DATA SHEET

Ultrasonic Cleaner

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Ultrasonic Cleaner

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

Relevant identified uses of the substance or mixture

No special

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Vecom Marine B.V.

Mozartlaan 3

3144 NA Maassluis

The Netherlands

+31 (0) 10-5930210

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https://vecom-marine.com

Contact person

Vecom Marine B.V.

E-mail

sales@vecom-marine.com

Revision

11/04/2022

SDS Version

1.0

1.4. Emergency telephone number

National Poisons Information Centre (NVIC): +31 (0)88-755-8000 (24 hour service)

Only intended to inform professional emergency services in case of acute poisoning.

See section 4 on first aid measures.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

Carc. 2; H351, Suspected of causing cancer.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Suspected of causing cancer. (H351)



Safety statement(s)

General

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Obtain special instructions before use. (P201)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . (P303+P361+P353) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage

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Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

sodium hydroxide; caustic soda

Acetic acid, nitrilotri-, trisodium salt, monohydrate

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: 01-2119457892-27- XXXX Index No.: 011-002-00-6	15-25%	Met. Corr. 1, H290 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Corr. 1A, H314 Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	
Silicic acid, sodium salt	CAS No.: 1344-09-8 EC No.: 215-687-4 REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
Acetic acid, nitrilotri-, trisodium salt, monohydrate	CAS No.: 18662-53-8 EC No.: 606-091-9 REACH: Index No.:	3-5%	Acute Tox. 4, H302 Eye Irrit. 2, H319 Carc. 2, H351	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

No special



SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

Product/substance	sodium hydroxide;caustic soda
DNEL	1.0 mg/m2
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	sodium hydroxide;caustic soda
DNEL	1.0 mg/m3
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	Silicic acid, sodium salt
DNEL	5.61 mg/m³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Silicic acid, sodium salt
DNEL	1.59 mg/kg

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Duration	Long term – Systemic effects - Workers
Product/substance	Silicic acid, sodium salt
DNEL	0.8 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Silicic acid, sodium salt
DNEL	1.38 mg/m³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Silicic acid, sodium salt
DNEL	0.8 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	9.6 mg/m3
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance DNEL Route of exposure Duration	Acetic acid, nitrilotri-, trisodium salt, monohydrate 3.2 mg/m3 Inhalation Long term – Systemic effects - Workers
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	2.4 mg/m3
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	0.9 mg/kg
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	0.8 mg/m3
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	0.3 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

PNEC

Product/substance Silicic acid, sodium salt

PNEC 7.5 mg/L Route of exposure Freshwater



Duration of Exposure	
Product/substance PNEC Route of exposure Duration of Exposure	Silicic acid, sodium salt 1 mg/L Marine water
Product/substance PNEC Route of exposure Duration of Exposure	Silicic acid, sodium salt 7.5 mg/L Intermittent release
Product/substance PNEC Route of exposure Duration of Exposure	Silicic acid, sodium salt 348 mg/L Sewage treatment plant
Product/substance PNEC Route of exposure Duration of Exposure	Acetic acid, nitrilotri-, trisodium salt, monohydrate 0.93 mg/l Freshwater
Product/substance PNEC Route of exposure Duration of Exposure	Acetic acid, nitrilotri-, trisodium salt, monohydrate 0.093 mg/l Marine water
Product/substance PNEC Route of exposure Duration of Exposure	Acetic acid, nitrilotri-, trisodium salt, monohydrate 0.8 mg/l Intermittent release
Product/substance PNEC Route of exposure Duration of Exposure	Acetic acid, nitrilotri-, trisodium salt, monohydrate 270 mg/l Sewage treatment plant

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally



Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation	-	-	-

Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	R

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	

Eye protection

re protection		
Type	Standards	
Wear safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Pale yellow

Odour / Odour threshold

Characteristic

рΗ

>13

Density (g/cm³)

1.19 (20 °C)

Relative density

1.19 (20 °C)

Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

-1

Softening point/range (waxes and pastes) (°C)



Does not apply to liquids.

Boiling point (°C)

103

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/substance

Silicic acid, sodium salt

Test method

Species Rat
Route of exposure Oral
Test LD50
Result 3400 mg/kg



Other information

Product/substance

Silicic acid, sodium salt

Test method

Species Rat
Route of exposure Dermal
Test LD50
Result >5000 mg/kg

Other information

Product/substance

Silicic acid, sodium salt

Test method

Species Rat
Route of exposure Inhalation
Test LC50
Result >2.06 g/m3

Other information

Product/substance

Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Rat
Route of exposure Inhalation
Test LC50 (4 hours)
Result 2 - 5 mg/L

Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Rabbit
Route of exposure Dermal
Test LD50

Result >10000 mg/kg

Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Rat
Route of exposure Oral
Test LD50

Result 1300 - 1600 mg/kg

Other information

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

Suspected of causing cancer.



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.

11.2. Information on other hazards

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

No special

Other information

No special

SECTION 12: Ecological information

12.1. Toxicity

Product/substance

sodium hydroxide; caustic soda

Test method

Species

Fish

Compartment

Duration 96 hours
Test LC50

Result 35 - 189 mg/L

Other information

Product/substance

sodium hydroxide;caustic soda

Test method

Species

Daphnia

Compartment

Duration 48 hours
Test EC50
Result 40.4 mg/L

Other information

Product/substance

Silicic acid, sodium salt

Test method

Species Fish

Compartment

Duration

Test

96 hours LC50

1108 mg/L

Result
Other information

Product/substance

Silicic acid, sodium salt

Test method

Species Daphnia

Compartment

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Duration 48 hours Test EC50 1700 mg/L Result

Other information

Product/substance

Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Fish

Compartment

Duration 96 hours Test LC50 103 mg/L Result

Other information

Product/substance

Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Daphnia

Compartment

Duration 48 hours EC50 Test Result 560 mg/L

Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Algae

Compartment

72 hours Duration Test EC50 >91.5 mg/L Result

Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate

Test method

Species Algae

Compartment

72 hours Duration Test NOEC Result 1.43 mg/L

Other information

12.2. Persistence and degradability

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate

Biodegradable Yes

Test method

Result

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT



and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 7 – Carcinogenic

HP 8 - Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	UN1824	SODIUM HYDROXIDE SOLUTION	Class: 8 Labels: 8 Classification code: C5	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1824	SODIUM HYDROXIDE SOLUTION	Class: 8 Labels: 8 Classification code: C5	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1824	SODIUM HYDROXIDE SOLUTION	Class: 8 Labels: 8 Classification code: C5	II	No	See below for additional information.

^{*} Packing group

Additional information

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

^{**} Environmental hazards



14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Not applicable

Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Working Conditions Act 1998 and latest Working Conditions Decree of 01-01-2021.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

H351, Suspected of causing cancer.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

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

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario



EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

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Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: NL-en