

SAFETY DATA SHEET

Nilfisk Stone Cleaner HD

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

1.1. Product identifier

Trade name

Nilfisk Stone Cleaner HD

Unique formula identifier (UFI)

T112-W0VG-000R-CQM9

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

Relevant identified uses of the substance or mixture

Detergent

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Nilfisk A/S

Kornmarksvej 1

2605 Brøndby

Denmark

+45 43 23 40 50

www.nilfisk.dk

Contact person

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E-mail

sds.com@nilfisk.com

SDS date

2021-03-16

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage.

Safety statement(s)

General

-

Prevention

P260, Do not breathe vapour / mist.

P280, Wear eye protection / protective gloves.

Response

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

P310, Immediately call a POISON CENTER / doctor.

Storage

-

Disposal

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

Hazardous substances

2-Butyloctan-1-ol, ethoxylated, propoxylated

Sodium Metasilicate

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/Ingredient name | Identifiers | % w/w | Classification | Note |
|--|--|-------|--|------|
| 2-Butyloctan-1-ol, ethoxylated, propoxylated | CAS No.: 252756-20-0 EC No.: 688-309-2 REACH No.: Polymer Index No.: | 5-10% | Eye Dam. 1, H318 | |
| Alanine, N,N-bis(carboxymethyl)-, trisodium salt | CAS No.: 164462-16-2 EC No.: REACH No.: 01-0000016977-53 Index No.: | 5-10% | Met. Corr. 1, H290 | |
| Sodium Metasilicate | CAS No.: 6834-92-0 EC No.: 229-912-9 REACH No.: 01-2119449811-37-0000 Index No.: 014-010-00-8 | 3-5% | STOT SE 3, H335 Skin Corr. 1B, H314 | |

| | | | |
|---|--|------|---|
| Sodium-N-(2-carboxyethyl)-N-(2-ethylhexyl)-beta-alaninate | CAS No.: 94441-92-6 EC No.: 305-318-6 REACH No.: Index No.: | 1-3% | |
| UNDECYLENAMIDOPROPYLTRIMONIUM METHOSULFATE | CAS No.: 94313-91-4 EC No.: 304-990-8 REACH No.: Index No.: | 1-3% | Eye Irrit. 2, H319 Skin Irrit. 2, H315 |
| sodium hydroxide | CAS No.: 1310-73-2 EC No.: 215-185-5 REACH No.: 01-2119457892-27-0000 Index No.: 011-002-00-6 | <1% | Skin Corr. 1A, H314 |

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

Labelling of contents according to Detergents Regulation 648/2004

5% - 15%

· Non-ionic surfactants

< 5%

· Amphoteric surfactants

· Cationic surfactants

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.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless

recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

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.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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.

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.

Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, sawdust, 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.

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

Storage temperature

> 0°C

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

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

No data available

PNEC

No data available

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

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

Wash contaminated clothing before reuse.

Use only CE marked protective equipment.

Respiratory Equipment

| Work situation | Type | Class | Colour | Standards |
|----------------|--------------------------|-------|--------|-----------|
| - | No specific requirements | - | - | - |

Skin protection

| Work situation | Recommended | Type/Category | Standards |
|----------------|----------------------------------|---------------|-----------|
| | No special when used as intended | - | - |

Hand protection

| Work situation | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |
|----------------|----------|----------------------|--------------------------|-----------|
| | Nitrile | 0,3 | >240 | EN388 |



Eye protection

| Work situation | Type | Standards |
|----------------|--|-----------|
| | Wear safety glasses with side shields. | EN166 |



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

Liquid

Colour

Yellowish

Odour

Characteristic

Odour threshold (ppm)

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

pH

12,5

Density (g/cm³)

1.08

Viscosity

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

Phase changes

Melting point (°C)

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

Boiling point (°C)

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

Vapour pressure

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

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.

Evaporation rate (n-butylacetate = 100)

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.

Explosion limits (% v/v)

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

Explosive properties

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

Oxidizing properties

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

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section "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 toxicological effects

Acute toxicity

| | |
|-------------------------|--|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Test method | |
| Species | Rat |
| Route of exposure | Oral |
| Test | LD50 |
| Result | > 2000 mg/kg · |
| Other information | |

| | |
|-------------------------|--|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Test method | |
| Species | Rabbit |
| Route of exposure | Dermal |
| Test | LD50 |
| Result | > 2000 mg/kg · |
| Other information | |

| | |
|-------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |
| Species | Rat |
| Route of exposure | Oral |
| Test | LD50 |
| Result | > 2000 mg/kg · |
| Other information | |

| | |
|-------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |
| Species | Rat |

| | |
|-------------------|----------------|
| Route of exposure | Dermal |
| Test | LD50 |
| Result | > 2000 mg/kg · |
| Other information | |

| | |
|-------------------------|---------------------|
| Product/Ingredient name | Sodium Metasilicate |
| Test method | |
| Species | Rat |
| Route of exposure | Oral |
| Test | LD50 |
| Result | 1280 mg/kg · |
| Other information | |

Skin corrosion/irritation

| | |
|-------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |
| Species | Rabbit |
| Duration | No data available. |
| Result | No adverse effect observed (Not irritating) |
| Other information | |

Causes severe skin burns and eye damage.

Serious eye damage/irritation

| | |
|-------------------------|---|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Test method | |
| Species | Rabbit |
| Duration | No data available. |
| Result | Adverse effect observed (Causes serious eye damage) |
| Other information | |

Causes severe skin burns and eye damage.

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

| | |
|-------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |
| Species | |
| Conclusion | No adverse effect observed |
| Other information | |

Carcinogenicity

| | |
|-------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |

| | |
|-------------------|----------------------------|
| Species | Rat |
| Route of exposure | |
| Target organ | |
| Duration | |
| Test | |
| Result | Negative |
| Conclusion | No adverse effect observed |
| Other information | |

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.

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

No special

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------------|--|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Test method | |
| Species | Daphnia |
| Compartment | |
| Duration | 48 hours |
| Test | EC50 |
| Result | > 1 - 10 mg/l · |
| Other information | |

| | |
|-------------------------|--|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Test method | |
| Species | Algae |
| Compartment | |
| Duration | 72 hours |
| Test | EC50 |
| Result | > 10 - 100 mg/l · |
| Other information | |

| | |
|-------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |
| Species | Fish |
| Compartment | |
| Duration | 96 hours |

Test LC50
 Result > 200 mg/L ·
 Other information

Product/Ingredient name Alanine, N,N-bis(carboxymethyl)-, trisodium salt
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result > 200 mg/L ·
 Other information

Product/Ingredient name Alanine, N,N-bis(carboxymethyl)-, trisodium salt
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test EC50
 Result > 200 mg/L ·
 Other information

Product/Ingredient name Sodium Metasilicate
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 210 mg/L ·
 Other information

Product/Ingredient name Sodium Metasilicate
 Test method
 Species Daphnia
 Compartment
 Duration 96 hours
 Test EC50
 Result 216 mg/L ·
 Other information

Product/Ingredient name UNDECYLENAMIDOPROPYLTRIMONIUM METHOSULFATE
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result > 251 mg/L ·
 Other information

| | |
|-------------------------|--|
| Product/Ingredient name | UNDECYLENAMIDOPROPYLTRIMONIUM METHOSULFATE |
| Test method | |
| Species | Daphnia |
| Compartment | |
| Duration | 48 hours |
| Test | EC50 |
| Result | 136 mg/L · |
| Other information | |

| | |
|-------------------------|--|
| Product/Ingredient name | UNDECYLENAMIDOPROPYLTRIMONIUM METHOSULFATE |
| Test method | |
| Species | Algae |
| Compartment | |
| Duration | 72 hours |
| Test | EC50 |
| Result | 1,3 mg/L · |
| Other information | |

12.2. Persistence and degradability

| | |
|-------------------------|--|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Biodegradable | Yes |
| Test | |
| Result | |

12.3. Bioaccumulative potential

| | |
|---------------------------|--|
| Product/Ingredient name | 2-Butyloctan-1-ol, ethoxylated, propoxylated |
| Test method | |
| Potential bioaccumulation | No |
| LogPow | No data available |
| BCF | No data available |
| Other information | |

| | |
|---------------------------|--|
| Product/Ingredient name | Alanine, N,N-bis(carboxymethyl)-, trisodium salt |
| Test method | |
| Potential bioaccumulation | No |
| LogPow | -4,0000 |
| BCF | No data available |
| Other information | |

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. Other adverse effects

No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

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

EWC code

20 03 01 Mixed municipal waste

20 01 29* Detergents containing dangerous substances

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 - 14.4

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

ADR/RID

| UN- or ID number | UN proper shipping name | Labels | PG | Tunnel restriction code |
|------------------|---|--------|-----|-------------------------|
| 1760 | CORROSIVE LIQUID, N.O.S.(sodium metasilicate) | 8 | III | 3 (E) |

IMDG

| UN- or ID number | UN proper shipping name | Labels | PG | EmS |
|------------------|---|--------|-----|----------|
| 1760 | CORROSIVE LIQUID, N.O.S.(sodium metasilicate) | 8 | III | F-A, S-B |

IATA

| UN- or ID number | UN proper shipping name | Labels | PG |
|------------------|---|--------|-----|
| 1760 | CORROSIVE LIQUID, N.O.S.(sodium metasilicate) | 8 | III |

"MARINE POLLUTANT"

No

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

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.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Sources

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

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H318, Causes serious eye damage.

H290, May be corrosive to metals.

H335, May cause respiratory irritation.

H314, Causes severe skin burns and eye damage.

H319, Causes serious eye irritation.

H315, Causes skin irritation.

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

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
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the substance/mixture is based on:

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 classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP)

The safety data sheet is validated by

MH

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: GB-en