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

1.1 Product identifier

Trade name: STIHL Special cleaner Varioclean
UFI: 92E0-30PQ-500F-D952
[28.03.2019]

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

Sector of Use
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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

Application of the substance / the mixture Resin and oil dissolver

Uses advised against None

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
ANDREAS STIHL AG & Co. KG
Badstr. 115
D-71336 Waiblingen
Tel: +49 (0)7151-26-3237
Fax: +49 (0)7151-26-8-3237
info@stihl.com

Further information obtainable from:

Headquater: see Manufacturer/Supplier

United Kingdom:
ANDREAS STIHL LIMITED
Stihl House, Stanhope Road,
Camberley, Surrey, GU15 3YT
tel: +44 (0) 1276 20202 / fax: +44 (0) 1276 670502
e-mail: custservice@stihl.co.uk

Republic of Ireland:
ORIGO
Magna Drive,
Magna Business Park
Citywest, Dublin 24
tel: +353 (0) 1 4666 726
e-mail: agreene@origo.ie

1.4 Emergency telephone number:

In England and Wales: dial 111 (NHS 111)
In Scotland: dial 111 (NHS 24)
In N Ireland: Contact your local GP or pharmacist during normal hours;
Click here ( www.gpoutofhours.hscni.net ) for GP services Out-of-Hours.
In Republic of Ireland: 01 809 2166 (Poisons Information Centre of Ireland)
Germany: +49 (0) 89 19240 (Poison Centre Munich)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Met. Corr. 1 H290 May be corrosive to metals.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

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

GHS05

Signal word Danger

Hazard-determining components of labelling:
disodium metasilicate

Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Aqueous tenside solution with silicates

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; Eye Dam. 1, H318; STOT SE 3, H335 |
| 15-<20% |
| CAS: | 147170-44-3 |
| EC No 931-333-8 |
| Reg.nr.: | 01-2119489410-39-xxxx |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts | Eye Dam. 1, H318; Aquatic Chronic 3, H412 |
| 4-<10% |
| Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % |
| Eye Irrit. 2; H319: 4 % ≤ C < 10 % |
| Alternative CAS number: 61789-40-0 |

Regulation (EC) No 648/2004 on detergents / Labelling for contents
amphoteric surfactants 25 - <15%

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

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Immediately remove any clothing soiled by the product.
Take affected persons out of danger area and lay down.
After inhalation: Supply fresh air; consult doctor in case of complaints.
51.0.2

After skin contact:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Seek immediate medical advice.

After eye contact:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Seek immediate medical advice.

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Eye irritation / Eye damage
Caustic effect on skin and mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed
Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

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
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
Nitrogen oxides (NOx)

5.3 Advice for firefighters
Protective equipment:
The normal measures for firefighting are to be taken.
Wear fully protective suit.
Do not enter the hazardous area without a self-contained breathing apparatus.
See Section 8 for information on personal protection equipment.

Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

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
Use only in well ventilated areas.
Open and handle receptacle with care.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Provide alkali-resistant floor.
### 5.0.2 Information about storage in one common storage facility:
Store away from foodstuffs.
Do not store together with acids.

### Further information about storage conditions:
Keep container tightly sealed.
Protect from frost.
Recommended storage temperature: 20 °C.

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

---

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

<table>
<thead>
<tr>
<th>CAS: 10213-79-3 disodium metasilicate-pentahydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DNELs</strong>&lt;br&gt;Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DNELs</strong>&lt;br&gt;Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 10213-79-3 disodium metasilicate-pentahydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PNECs</strong>&lt;br&gt;PNEC 1,000 mg/l (STP)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PNECs</strong>&lt;br&gt;PNEC 3,000 mg/l (STP)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

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

#### 8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

**Respiratory protection:**
Not required in normal cases
Ensure good ventilation/exhaustion at the workplace.

**Protection of hands:** Protective gloves

**Material of gloves:** Chloroprene rubber, CR
Recommended thickness of the material: ≥ 0.6 mm

**Penetration time of glove material** Value for the permeation: Level 6 (≥480min)

Eye protection:

Tightly sealed goggles

[EN 166]

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**General Information**

**Appearance:**

- **Form:** Fluid
- **Colour:** Light yellow
- **Odour:** Odourless
- **Odour threshold:** Not determined.

**pH-value at 20 °C:**

12.5 - 13.5

(10g/l) : 10.0 - 11.0

**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 selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

- **Lower:** Not applicable
- **Upper:** Not applicable

**Vapour pressure:** Not determined.

**Density at 20 °C:**

1.10 - 1.12 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:**

- **Flow time at 20 °C**
  10 - 15 s (DIN EN ISO 2431/4mm)

**9.2 Other information**

No further relevant information available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reactions known.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Exothermic reaction with strong acids

#### 10.4 Conditions to avoid

See Section 7 for information on safe handling.

#### 10.5 Incompatible materials:

acids

(Contd. on page 6)
strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no toxicological findings on this mixture.

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

LD/LC50 values relevant for classification:
No further relevant information available.

<table>
<thead>
<tr>
<th>CAS: 10213-79-3 disodium metasilicate-pentahydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
<tr>
<td>Inhalative LC50 / 4h</td>
</tr>
<tr>
<td>1,152-1,349 mg/kg (rat)</td>
</tr>
<tr>
<td>&gt;5,000 mg/kg (Ratte)</td>
</tr>
<tr>
<td>&gt;2.06 mg/l (rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
<tr>
<td>&gt;5,000 mg/kg (rat) (OECD 401)</td>
</tr>
<tr>
<td>&gt;2,000 mg/kg (rat) (OECD 402)</td>
</tr>
</tbody>
</table>

Primary irritant effect:

Skin corrosion/irritation
OECD 431: Corrosive!
Causes severe skin burns and eye damage.

Serious eye damage/irritation
OECD 431: Corrosive!
Causes serious eye damage.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Repeated dose toxicity

<table>
<thead>
<tr>
<th>CAS: 10213-79-3 disodium metasilicate-pentahydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LOAEL</td>
</tr>
<tr>
<td>NOAEL</td>
</tr>
<tr>
<td>716-892 mg/kg (mouse)</td>
</tr>
<tr>
<td>260-284 mg/kg (mouse)</td>
</tr>
</tbody>
</table>

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
None of the ingredients are known to have effects which are carcinogenic, mutagenic or harmful to reproduction.

Values relevant for classification:

<table>
<thead>
<tr>
<th>CAS: 10213-79-3 disodium metasilicate-pentahydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral NOAEL</td>
</tr>
<tr>
<td>&gt;227-237 mg/kg/day (Ratte)</td>
</tr>
</tbody>
</table>

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
There are no ecotoxicological data available on this mixture.

Aquatic toxicity:

<table>
<thead>
<tr>
<th>CAS: 10213-79-3 disodium metasilicate-pentahydrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 / 48h</td>
</tr>
<tr>
<td>1,700 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>EC50 / 72h</td>
</tr>
<tr>
<td>207 mg/l (Desmodesmus subspicatus)</td>
</tr>
<tr>
<td>EC50 / 96 h</td>
</tr>
<tr>
<td>210 mg/l (Danio rerio)</td>
</tr>
</tbody>
</table>
51.0.2

CAS: 147170-44-3 1-Propanaminium, 3-amino-\(\text{N}-(\text{carboxymethyl})\)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts

| LC 50 | >1-10 mg/l (Pimephales promelas) (OECD 203) |
| EC0  | >100 mg/l (Pseudomonas putida) (OECD 209) |
| EC50 | >1-10 mg/l (Daphnia magna) (OECD 202) |
| NOEC | ≤1 mg/l (Desmodesmus subspicatus) (OECD 201) |
|      | ≤1 mg/l (Oncorhynchus mykiss) (OECD210) |
|      | ≤1 mg/l (Daphnia magna) (OECD 211) |

12.2 Persistence and degradability
The surface-active substances contained in the product meet the requirement of the EU Detregent Regulation (EC/648/2004) for ultimate biodegradability for surfactants in detergents.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:
General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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
Waste classified as hazardous according to Annex III to Directive 2008/98/EC.
Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue
1) Disposal / product
2) Disposal / contaminated packaging
20 01 29* detergents containing dangerous substances
15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA UN1719

14.2 UN proper shipping name
ADR 1719 CAUSTIC ALKALI LIQUID, N.O.S. (disodium trioxosilicate)
IMDG, IATA CAUSTIC ALKALI LIQUID, N.O.S. (disodium trioxosilicate)

14.3 Transport hazard class(es)
ADR

Class 8 Corrosive substances.
IMDG, IATA

Class 8 Corrosive substances.
Label

14.4 Packing group ADR, IMDG, IATA III

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user Warning: Corrosive substances.

Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR
Limited quantities (LQ) 5L
Transport category 3
Tunnel restriction code E
UN "Model Regulation": UN1719, CAUSTIC ALKALI LIQUID, N.O.S. (disodium trioxosilicate), 8, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Directives:
EC/1907/2006 (REACH)
EC/1272/2008 (CLP)
EC/648/2004

National regulations:
Information about limitation of use:
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Classification</th>
<th>Method/Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosive to metals</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
DGR: Przepisy dotyczące towarów niebezpiecznych - Dangerous Goods Regulations by IATA
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
NOEL = No Observed Effect Level
NOEC = No Observed Effect Concentration
LC = lethal Concentration
EC50 = half maximal effective concentration
log POW = Octanol / water partition coefficient
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ATE: acute toxicity estimate
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
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
IOELV = indicative occupational exposure limit values
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Version history and indication of changes: Replaces version 5.01.
* Data compared to the previous version altered.