

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 15.09.2017

Version: 5

Revision: 15.09.2017

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** *STIHL Special cleaner Varioclean***Article number:**

0000 881 9400 / 0000 881 9409

[31.05.2017]

**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 &amp; Co. KG

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**Further information obtainable from:****Headquarter:** 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

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**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](http://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.

**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.

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GB

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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/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; ⚠ STOT SE 3, H335	15 - <20%
CAS: 147170-44-3 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	5 - <10%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

amphoteric surfactants	≥5 - <15%
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**Additional information:**

147170-44-3 (REACH registered CAS)

alternative CAS: 61789-40-0

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.

**After skin contact:**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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

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*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 (CO<sub>2</sub>)**Nitrogen oxides (NO<sub>x</sub>)***5.3 Advice for firefighters****Protective equipment:***The normal measures for firefighting are to be taken.**Wear fully protective suit.***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.***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.*

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### 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.

**DNELs**
**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**

Oral	DNEL	7.5 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	7.5 mg/kg (consumer) (longterm systematic effects)
		12.5 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	44 mg/m <sup>3</sup> (worker) (longterm systematic effects)

**PNECs**
**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**

PNEC	3000 mg/l (STP)
	0.0135 mg/l (water (fresh water))
	0.00135 mg/l (water (sea water))
PNEC	1 mg/kg (sediment (fresh water))
	0.1 mg/kg (sediment (sea water))
	0.8 mg/kg (soil)

**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:  $\geq 0.6$  mm

[EN 374]

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

**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:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Characteristic

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<b>Odour threshold:</b>	Not determined.
<b>pH-value at 20 °C:</b>	12.5 - 13.5 (10g/l) : 10,0 - 11,0
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	≥100 °C
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	1.10 - 1.12 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Flow time at 20 °C</b>	10 - 15 s (DIN EN ISO 2431/4mm)
<b>9.2 Other information</b>	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

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.

**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**

Oral	LD50	>5000 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
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**Primary irritant effect:**

**Skin corrosion/irritation**

OECD 431: Corrosive!  
Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

OECD 431: Corrosive!  
Causes severe skin burns and eye damage.

**Values relevant for classification:**

**147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered, C18 unsaturated)) acyl derivs., hydroxides, inner salts:**  
Specific concentration limits [SCL] (ECHA)  
> 4.0% - < 10.0% Eye Irrit. 2 | >10.0% Eye Damage 1

**Respiratory or skin sensitisation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**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.

**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:**

**CAS: 10213-79-3 disodium metasilicate-pentahydrate**

LC50 / 96h	210 mg/l (Brachydanio rerio)
EC0	>1000 mg/l (Pseudomonas putida)
EC50 / 96 h	216 mg/l (Daphnia magna)

**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**

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)
	>1 - 10 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC	≤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 Detergent 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.

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**12.6 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

Dangerous waste in accordance with the Directive on the List of Waste Materials

**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** 8

**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/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

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles 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.

**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

**\* Data compared to the previous version altered.**