

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

Printing date 18.06.2020

Version: 5.02

Revision: 17.06.2020

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:**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

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.

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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 Alternative CAS number: 61789-40-0 ☞ Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	4-<10%

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

amphoteric surfactants

≥5 - <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.

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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 (NO_x)***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.*

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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.

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

Oral	DNEL	0.74 mg/kg bw/day (consumer) (chronic systemic effect)
Dermal	DNEL	1.49 mg/bw/day (worker) (chronic systemic effect)
	DNEL	0.74 mg/kg bw/day (consumer) (chronic systemic effect)
Inhalative	DNEL	1.55 mg/m ³ (consumer) (chronic systemic effect)
	DNEL	6.22 mg/m ³ (worker) (chronic systemic effect)

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)
	DNEL	12.5 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	44 mg/m ³ (worker) (longterm systematic effects)

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

PNEC	1,000 mg/l (STP)
	7.5 mg/l (water)
	7.5 mg/l (water (fresh water))
	1 mg/l (water (sea water))

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	3,000 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

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Recommended thickness of the material: ≥ 0.6 mm

[EN 374]

Penetration time of glove material Value for the permeation: Level 6 (≥ 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:

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
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Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	≥ 100 °C

Flash point:	Not applicable.
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Flammability (solid, gas):	Not applicable.
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Product is not selfigniting.
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Explosive properties:	Product does not present an explosion hazard.
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Explosion limits:

Lower:	Not applicable
Upper:	Not applicable

Vapour pressure:	Not determined.
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Density at 20 °C:	1.10 - 1.12 g/cm ³
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Relative density	Not determined.
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Vapour density	Not determined.
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Evaporation rate	Not determined.
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Solubility in / Miscibility with water:

Fully miscible.

Partition coefficient: n-octanol/water:	Not determined.
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Viscosity:

Flow time at 20 °C	10 - 15 s (DIN EN ISO 2431/4mm)
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9.2 Other information	No further relevant information available.
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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

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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: 10213-79-3 disodium metasilicate-pentahydrate

Oral	LD50	1,152-1,349 mg/kg (rat)
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Dermal	LD50	>5,000 mg/kg (Ratte)
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Inhalative	LC50 / 4h	>2.06 mg/l (rat)
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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	>5,000 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2,000 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 serious eye damage.

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

Repeated dose toxicity
CAS: 10213-79-3 disodium metasilicate-pentahydrate

Oral	LOAEL	716-892 mg/kg (mouse)
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	NOAEL	260-284 mg/kg (mouse)
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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:
CAS: 10213-79-3 disodium metasilicate-pentahydrate

Oral	NOAEL	>227-237 mg/kg/day (Ratte)
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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

EC50 / 48h	1,700 mg/l (Daphnia magna)
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EC50 / 72h	207 mg/l (Desmodesmus subspicatus)
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EC50 / 96 h	210 mg/l (Danio rerio)
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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 (<i>Pimephales promelas</i>) (OECD 203)
EC0	>100 mg/l (<i>Pseudomonas putida</i>) (OECD 209)
EC50	>1-10 mg/l (<i>Daphnia magna</i>) (OECD 202)
	>1-10 mg/l (<i>Desmodesmus subspicatus</i>) (OECD 201)
NOEC	≤1 mg/l (<i>Oncorhynchus mykiss</i>) (OECD210)
	≤1 mg/l (<i>Daphnia magna</i>) (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.

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
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15 01 10*	packaging containing residues of or contaminated by dangerous substances
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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.

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IMDG, IATA


Class	8 Corrosive substances.
Label	8

14.4 Packing group ADR, IMDG, IATA	III
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14.5 Environmental hazards: Marine pollutant:	No
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14.6 Special precautions for user	Warning: Corrosive substances.
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Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
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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
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

Corrosive to metals	On basis of test data
Skin corrosion/irritation Serious eye damage/eye irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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)

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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.**

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