SAFETY DATA SHEET
STERIGENE GREEN CONCENTRATE

Compilation date: 16/05/2012
Revision No: 4
Revision Date: 14/10/2015

Section 1 – Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier/name STERIGENE GREEN CONCENTRATE

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of substance/mixture: Disinfectant solution. For professional use only.

1.3 Details of the supplier of the safety data sheet

Company name:	Ethical Agents Ltd 54 Hobill Avenue Wiri, Auckland 2104, New Zealand
Tel:	+64 9 262 1388
Fax:	+64 9 262 1411
Email:	eage@xtra.co.nz
Website:	www.ethicalagents.co.nz

1.4 Emergency telephone number: **Poisons Information Centre -** New Zealand: 0800 POISON (0800 764 766)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification under CHIP: Xi: R41; Sens.: R43; -: R52/53
Classification under CLP: Aquatic chronic 3: H412; Eye Dam. 1:H318; Skin Irrit. 2: H315; Skin Sens. 1:H317; EUH208
Classification under HSNO: 9.1C, 8.3A, 6.3A, 6.5B
Most important adverse effects: Risk of serious damage to eyes. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements under CLP:

Hazard statements:

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long-lasting effects.
EUH208: Contains polymeric biguanide hydrochloride. May produce an allergic reaction.

Signal words: Danger

Hazard pictograms:

GHS05: Corrosion
GHS07: Exclamation mark

Precautionary statements:

P261: Avoid breathing mist/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P305+351+338: IF IN EYES: Rinse copiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+313: If skin irritation or rash occurs: Get medical advice.

Label elements under CHIP:

Hazard symbols: Irritant

Risk phrases:

R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
P16: Contains polymeric biguanide hydrochloride. May produce an allergic reaction.

Safety phrases:

S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39: Wear suitable gloves and eye/face protection.

2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance

Section 3: Composition/information on ingredients

3.1 Mixtures:

Hazardous ingredients:

C9-C11 ALCOHOL ETHOXYLATE (6) 1-10%

EINECS –
CAS 68439-46-3
CHIP Classification Xn: R22; Xi: R41
CLP Classification Acute Tox. 4: H302; Eye Dam. 1:H318

PROPAN-2-OL 1-10%

EINECS 200-661-7
CAS 67-63-0
CHIP Classification F: R11; Xi: R36; -: R67
CLP Classification Flam. Liq. 1: H224; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066

DIDECYLDIMETHYLAMMONIUM CHLORIDE 1-10%

EINECS 230-525-2
CAS 7173-51-5
CHIP Classification Xn: R22; C: R34
CLP Classification Acute Tox. 4: H302; Skin Corr. 1B: H314

POLYMERIC BIGUANIDE HYDROCHLORIDE 1-10%

EINECS –
CAS 27083-27-8
CHIP Classification Xi : R37/38 ; Sens. : R43 ; N : R50/53
CLP Classification Acute Tox. 4: H302; Skin Irrit. 2: H315; Aquatic Acute 1: H400; Eye Dam. 1:H318
Skin Sens. 1: H317

ALKYL(C12-16)DIMETHYLBENZYLAMMONIUM CHLORIDE 1-10%

EINECS 270-325-2
CAS 68424-85-1
CHIP Classification Xn: R21/22; C: R34; N: R50
CLP Classification Acute Tox. 4: H302; Skin Corr. 1B: H314 ; Aquatic Acute 1: H400

Section 4: First Aid Measures

4.1 Description of first aid measures

Skin Contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1 Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1: Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2: Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3: Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4: Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1: Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2: Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

7.3: Specific end use(s): Disinfectant solution. For professional use only.

Section 8: Exposure controls/personal protection

8.1: Control parameters

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
New Zealand	983 mg/m3	1230 mg/m3	-	-

DNEL/PNEC Values: No data available

8.2: Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State: Liquid.

Odour: characteristic chemical odour that may be fragranced, e.g. green with citrus fragrance, clear with low odour, yellow with lemon fragrance, blue with eucalyptus fragrance and mauve with lavender fragrance.

Evaporation rate: As water.

Boiling point/range ^{0}C: 110

Relative density: Approx 1.000

pH: 4.5-6.5

9.2 Other information: No data available.

Section 10: Stability and reactivity

10.1 Reactivity: Stable under recommended transport or storage conditions.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid: Heat.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products: In combustion emits toxic fumes.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Hazardous ingredients:

C9-C11 ALCOHOL ETHOXYLATE (6)

ORAL	RAT	LD50	200-2000	mg/kg

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

DIDECYLDIMETHYLAMMONIUM CHLORIDE

IPR	RAT	LD50	45	mg/kg
ORL	MUS	LD50	268	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Symptoms/routes of exposure

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological Information

12.1 Toxicity:

Hazardous ingredients:

C9-C11 ALCOHOL ETHOXYLATE (6)

DAPHNIA	48H EC50	1-10 mg/l
FISH	96H LC50	1-10 mg/l

ALKYL(C12-16)DIMETHYLBENZYLAMMONIUM CHLORIDE

DAPHNIA MAGNA	48H EC50	0.016 mg/l

12.2 Persistence and degradability: Product is biodegradable.
12.3 Bioaccumulative potential: No bioaccumulation potential.
12.4 Mobility in soil: Readily absorbed into soil.
12.5 Results of PBT and vPvB assessment
PBT identification: This product is not identified as a PBT/vPvB substance.
12.6 Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal Considerations

13.1 Waste treatment methods
Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

N.B.: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport Information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory Information

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

15.2 Chemical Safety Assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Cleaning Products (Subsidiary Hazard) Group Standard 2006 {HSNO Approval Number HSR 002530}. A copy of this group standard can be found on the EPA website at:
http://www.epa.govt.nz/hazardoussubstances/approvals/group-standards/Pages/default.aspx

Section 16: Other Information

This Safety Data Sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

Phrases used in s.2 and s.3:

EUH066: Repeated exposure may cause skin dryness or cracking.
H224: Extremely flammable liquid and vapour.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.

R11: Highly flammable.
R21/22: Harmful in contact with skin and if swallowed.
R22: Harmful if swallowed.
R34: Causes burns.
R36: Irritating to eyes.
R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50: Very toxic to aquatic organisms.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67: Vapours may cause drowsiness and dizziness.

Legend to abbreviations:

PNEC = predicted no effect level
DNEL = derived no effect level
LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = phycico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.