

**TRIO 100** 

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Compilation date: 14/08/2014

**Revision date:** 16/09/2019

Revision No: 4.2

#### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: TRIO 100
Product code: 201

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

Use of substance / mixture: PC8: Biocidal products (e.g. Disinfectants, pest control).

## 1.3. Details of the supplier of the safety data sheet

Company name: Clover Chemicals Ltd

Clover House

Macclesfield Road

Whaley Bridge, High Peak

Derbyshire SK23 7DQ

UK

**Tel:** +44 (0) 1663 733114 **Fax:** +44 (0) 1663 733115

Email: technical@cloverchemicals.com

## 1.4. Emergency telephone number

Emergency tel: NHS 111

NHS Direct Wales 08454647

ROI 01 809 2166

#### Section 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314

Most important adverse effects: Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life

with long lasting effects.

#### 2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

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Hazard pictograms: GHS05: Corrosion

GHS09: Environmental





Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling. P280: Wear eye protection, protective gloves.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P337+P313: If eye irritation persists: Get medical advice/attention. P332+P313: If skin irritation occurs: Get medical advice/attention.

P273: Avoid release to the environment.

#### 2.3. Other hazards

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

## Section 3: Composition/information on ingredients

#### 3.2. Mixtures

# \* Hazardous ingredients:

## C9-11 ALCOHOL ETHOXYLATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	68439-46-3	-	Eye Dam. 1: H318; Acute Tox. 4: H302	1-10%

## QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

270-325-2	68424-85-1	-	Skin Corr. 1B: H314; Eye Dam. 1: H318;	1-10%
			Aquatic Acute 1: H400; Acute Tox. 4:	
			H302; Aquatic Chronic 1: H410	

#### DIDECYLDIMETHYLAMMONIUM CHLORIDE

230-525-2 7173-51-5 - Acute Tox. 4: H302; Skin Corr. 1B: H314
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# C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

POLYMER	160875-66-1	-	Eye Dam. 1: H318	1-10%

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#### ALCOHOLS, C12-C14, ETHOXYLATED

POLYMER	68439-50-9	-	Aquatic Acute 1: H400; Eye Dam. 1:	<1%
			H318	

Contains: Quaternary ammonium compounds, benzyl (C12-C16) alkyl dimethyl, chlorides (2.967

%w/w) Didecyldimethylammonium chloride (2.967 %w/w)

#### 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. Rinse skin

with water. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to

drink immediately. Consult a doctor.

Inhalation: Not applicable.

# 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 irritation and pain.

**Ingestion:** There may be soreness and redness of the mouth and throat.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

# 4.3. Indication of any immediate medical attention and special treatment needed

# Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Water.

#### 5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

# 5.3. Advice for fire-fighters

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. 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

Environmental precautions: Do not discharge into drains or rivers.

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# 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a suitable container.

6.4. Reference to other sections

## Section 7: Handling and storage

## 7.1. Precautions for safe handling

Handling requirements: Avoid the formation or spread of mists in the air.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed.

Suitable packaging: Polyethylene.

7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

Workplace exposure limits: No data available.

#### **DNEL/PNEC Values**

**DNEL / PNEC** No data available.

# 8.2. Exposure controls

Engineering measures: Not applicable.

Hand protection: Protective gloves. Nitrile gloves.

Eye protection: Safety glasses.

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow

Odour: Barely perceptible odour

Evaporation rate: Not applicable.

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Non-viscous

Boiling point/range°C: 100 Melting point/range°C: 0

Flammability limits %: lower: Not applicable. upper: Not applicable.

Part.coeff. n-octanol/water: Not applicable.

Autoflammability°C: Not applicable.

Vapour pressure:Not applicable.Relative density:1.003

**pH**: 11 **VOC g/l**: 0

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#### 9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

## 10.4. Conditions to avoid

# 10.5. Incompatible materials

# 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## **Section 11: Toxicological information**

# 11.1. Information on toxicological effects

#### **Hazardous ingredients:**

## QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

ORAL	RAT	LD50	795	ma/ka
0.0.2	1011			9,9

#### **DIDECYLDIMETHYLAMMONIUM CHLORIDE**

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	658	mg/kg

## C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

ORL	RAT	LD50	>2000	ma/ka
OIL	11/1	LD30	72000	ilig/kg

#### **ALCOHOLS, C12-C14, ETHOXYLATED**

ORL	RAT	LD50	>5000	mg/kg
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## Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated

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Serious eye damage/irritation	OPT	Hazardous: calculated
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#### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain.

 $\textbf{Ingestion:} \ \ \, \textbf{There may be soreness and redness of the mouth and throat.}$ 

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

## **Section 12: Ecological information**

#### 12.1. Toxicity

## **Hazardous ingredients:**

## **C9-11 ALCOHOL ETHOXYLATE**

FISH	96H LC50	1-10	mg/l	
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#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

Daphnia magna	48H EC50	.016	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	.026	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	.85	mg/l

#### **DIDECYLDIMETHYLAMMONIUM CHLORIDE**

Daphnia magna	48H EC50	0.06	mg/l
GREEN ALGA (Selenastrum capricornutum)	96H LC50	0.12	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	0.97	mg/l

# C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

Scenedesmus	48H EC50	10 - 100	mg/l	
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## ALCOHOLS, C12-C14, ETHOXYLATED

-	48H EC50	>1-<=10	mg/l
-	48H EC50	>100	mg/l
-	96H LC50	>1-<=10	mg/l
-	96H LC50	>1-<=10	mg/l

## 12.2. Persistence and degradability

Persistence and degradability: Biodegradable. The surfactants contained in this preparation comply with the biodegradability

criteria as laid down in regulation (EC) No.648/2004 on detergents.

# 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

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12.4. Mobility in soil

Mobility: Soluble in water.

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

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations

regarding disposal.

## **Section 14: Transport information**

#### 14.1. UN number

UN number: UN3082

## 14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(alkydimethylbenzylammoniumchloride, didecyldimethylammoniumchloride)

# 14.3. Transport hazard class(es)

Transport class: 9

## 14.4. Packing group

Packing group: III

#### 14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: Yes

## 14.6. Special precautions for user

Tunnel code: E

Transport category: 3

# **Section 15: Regulatory information**

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

Specific regulations: ....

# 15.2. Chemical Safety Assessment

#### **Section 16: Other information**

#### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

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2015/830.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

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.