

## GOJO® Antibac Lotion Soap Fragrance Free

Version 1.5      Revision Date: 03.06.2015      MSDS Number: 47676-00006      Date of last issue: 02.06.2015  
Date of first issue: 13.01.2015

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

#### 1.1 Product identifier

Trade name : GOJO® Antibac Lotion Soap Fragrance Free

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

Use of the Sub-stance/Mixture : Antibacterial Soap

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

Company : GOJO Industries-Europe Ltd.  
Units 5 & 6, Stratus Park  
MK10 0DE Brinklow, Milton Keynes

Telephone : +44(0) 1908588444

Telefax : +44(0) 1908588445

E-mail address of person responsible for the SDS : infoUK@gojo.com

#### 1.4 Emergency telephone number

+44(0) 8445605135

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2      H319: Causes serious eye irritation.

Acute aquatic toxicity, Category 1      H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1      H410: Very toxic to aquatic life with long lasting effects.

##### Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment      R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements


##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. <b>Response:</b> P337 + P313 If eye irritation persists: Get medical advice/ attention. P391 Collect spillage.

### Additional Labelling:

EUH208 Contains 5-Chloro-2-methyl-4-isothiazolin-3-one. May produce an allergic reaction.

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Ethanolamine	141-43-5 205-483-3	C; R34 Xn; R20/21/22	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Chronic 3; H412	>= 2.5 - < 5
Triclosan	3380-34-5 222-182-2	Xi; R36/38 N; R50/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4 247-500-7	T; R23/24/25 C; R34	Acute Tox. 3; H301 Acute Tox. 2; H330	< 0.0012

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		R43 N; R50/53	Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye irritation.

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

- Treatment : Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam

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Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Metal oxides  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.

### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.

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Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Avoid inhalation of vapour or mist.  
Do not swallow.  
Do not get in eyes.  
Avoid prolonged or repeated contact with skin.  
Handle in accordance with good industrial hygiene and safety practice.  
Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.
- Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents

### 7.3 Specific end use(s)

- Specific use(s) : No data available
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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
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Ethanolamine	141-43-5	TWA	1 ppm 2.5 mg/m3	2006/15/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	3 ppm 7.6 mg/m3	2006/15/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	1 ppm 2.5 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	3 ppm 7.6 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Sodium sulphate : End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term local effects  
 Value: 12 mg/m3  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term systemic effects  
 Value: 12 mg/m3  
 End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term local effects  
 Value: 20 mg/m3  
 End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term systemic effects  
 Value: 20 mg/m3

Ethanolamine : End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term local effects  
 Value: 3.3 mg/m3  
 End Use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Long-term systemic effects  
 Value: 1 mg/kg bw/day  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term local effects  
 Value: 2 mg/m3  
 End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Long-term systemic effects  
 Value: 0.24 mg/kg bw/day  
 End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Long-term systemic effects  
 Value: 3.75 mg/kg bw/day

Triclosan : End Use: Workers  
 Exposure routes: Inhalation

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Potential health effects: Long-term systemic effects  
Value: 3 mg/m<sup>3</sup>  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 2.8 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Sodium sulphate	: Fresh water Value: 11.09 mg/l Marine water Value: 1.109 mg/l Intermittent use/release Value: 17.66 mg/l Sewage treatment plant Value: 800 mg/l Fresh water sediment Value: 40.2 mg/kg Marine sediment Value: 4.02 mg/kg Soil Value: 1.54 mg/kg
Ethanolamine	: Fresh water Value: 0.085 mg/l Marine water Value: 0.0085 mg/l Intermittent use/release Value: 0.028 mg/l Sewage treatment plant Value: 100 mg/l Fresh water sediment Value: 0.434 mg/kg Marine sediment Value: 0.0434 mg/kg Soil Value: 0.0367 mg/kg
Triclosan	: Fresh water Value: 0.00007 mg/l Marine water Value: 0.0069 µg/l Intermittent use/release Value: 0.000016 mg/l Sewage treatment plant Value: 0.11 mg/l Fresh water sediment Value: 1 mg/kg Marine sediment Value: 0.1 mg/kg Soil Value: 0.196 mg/kg

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

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Minimize workplace exposure concentrations.

### Personal protective equipment

- |                             |   |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye protection              | : | Wear the following personal protective equipment:<br>Safety goggles                                                                                                                                                                                                                                                                                                                                                                     |
| Hand protection<br>Material | : | Impervious gloves                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Remarks                     | : | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Skin and body protection    | : | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.<br>Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).                                                                                                                                                                                                       |
| Respiratory protection      | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.                                                                                                                                                                                                                                                         |
| Filter type                 | : | Combined particulates and organic vapour type (A-P)                                                                                                                                                                                                                                                                                                                                                                                     |
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                                         |   |                      |
|-----------------------------------------|---|----------------------|
| Appearance                              | : | liquid               |
| Colour                                  | : | clear, yellow, amber |
| Odour                                   | : | like soap            |
| Odour Threshold                         | : | No data available    |
| pH                                      | : | 7 - 10               |
| Melting point/freezing point            | : | No data available    |
| Initial boiling point and boiling range | : | No data available    |
| Flash point                             | : | > 100 °C             |
| Evaporation rate                        | : | No data available    |



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Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1.00 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity	
Viscosity, kinematic	: 1,000 - 20,000 mm <sup>2</sup> /s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

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### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### Components:

##### **Ethanolamine:**

Acute oral toxicity : LD50 (Rat): 1,515 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Test atmosphere: vapour  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : LD50 (Rabbit): 1,025 mg/kg

##### **Triclosan:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 6,000 mg/kg

##### **5-Chloro-2-methyl-4-isothiazolin-3-one:**

Acute oral toxicity : Acute toxicity estimate: 100 mg/kg  
Method: Expert judgement  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): 0.33 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on data from similar materials

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg  
Method: Expert judgement  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Result: No skin irritation

#### **Components:**

##### **Ethanolamine:**

Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure

##### **Triclosan:**

Species: Rabbit

Method: Draize Test

Result: Skin irritation

##### **5-Chloro-2-methyl-4-isothiazolin-3-one:**

Result: Corrosive after 3 minutes to 1 hour of exposure

Remarks: Based on data from similar materials

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Components:**

##### **Ethanolamine:**

Species: Rabbit

Result: Irreversible effects on the eye

##### **Triclosan:**

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

##### **5-Chloro-2-methyl-4-isothiazolin-3-one:**

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### **Product:**

Assessment: Does not cause skin sensitisation.

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### Components:

#### **Ethanolamine:**

Test Type: Maximisation Test (GPMT)  
Exposure routes: Skin contact  
Species: Guinea pig  
Result: negative

#### **Triclosan:**

Test Type: Buehler Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative

#### **5-Chloro-2-methyl-4-isothiazolin-3-one:**

Exposure routes: Skin contact  
Result: positive  
Remarks: Based on data from similar materials

Assessment: Probability or evidence of skin sensitisation in humans

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **Ethanolamine:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative

#### **Triclosan:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: Equivocal

: Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion

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Method: OECD Test Guideline 475  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

##### **Triclosan:**

Species: Rat  
Application Route: Ingestion  
Exposure time: 2 Years  
Method: OECD Test Guideline 453  
Result: negative

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **Ethanolamine:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

##### **Triclosan:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Ingestion  
Result: negative

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **Ethanolamine:**

Assessment: May cause respiratory irritation.

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### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **Ethanolamine:**

Exposure routes: inhalation (dust/mist/fume)

Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

### Repeated dose toxicity

#### Components:

##### **Ethanolamine:**

Species: Rat

NOAEL: 150 mg/m<sup>3</sup>

Application Route: inhalation (dust/mist/fume)

Exposure time: 28 d

##### **Triclosan:**

Species: Rat

NOAEL: 33 mg/kg

LOAEL: 107 mg/kg

Application Route: Ingestion

Exposure time: 2 y

Species: Rat

NOAEL: >= 80 mg/kg

Application Route: Skin contact

Exposure time: 90 d

### Aspiration toxicity

Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Ethanolamine:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 349 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 65 mg/l  
aquatic invertebrates : Exposure time: 48 h

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 2.8 mg/l  
Exposure time: 72 h

NOEC (Scenedesmus capricornutum (fresh water algae)): 1 mg/l

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Exposure time: 72 h

Toxicity to bacteria : EC50 (*Pseudomonas putida*): 110 mg/l  
Exposure time: 17 h

Toxicity to fish (Chronic toxicity) : NOEC: 1.24 mg/l  
Exposure time: 41 d  
Species: *Oryzias latipes* (Orange-red killifish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.85 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)

### Triclosan:

Toxicity to fish : LC50 (*Brachydanio rerio* (zebrafish)): 0.54 mg/l  
Exposure time: 96 h  
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.191 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : NOEC (*Desmodesmus subspicatus* (green algae)): 0.69 µg/l  
Exposure time: 96 h

EC50 (*Desmodesmus subspicatus* (green algae)): 1.61 µg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to bacteria : EC50 : 11 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0.034 mg/l  
Exposure time: 96 d  
Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.026 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

### 5-Chloro-2-methyl-4-isothiazolin-3-one:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.19 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.16 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

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Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0.027 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 10

### 12.2 Persistence and degradability

#### Components:

##### **Ethanolamine:**

Biodegradability : Result: Readily biodegradable  
Biodegradation: > 90 %  
Exposure time: 21 d

##### **Triclosan:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 18 - 37 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Result: Inherently biodegradable.  
Biodegradation: 99.4 %  
Exposure time: 14 d  
Method: OECD Test Guideline 302B

Result: Not readily biodegradable.  
Biodegradation: 18.6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **5-Chloro-2-methyl-4-isothiazolin-3-one:**

Biodegradability : Result: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

##### **Ethanolamine:**

Partition coefficient: n-octanol/water : log Pow: -1.91

##### **Triclosan:**

Bioaccumulation : Species: Zebrafish  
Bioconcentration factor (BCF): 2,532 - 4,157  
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: 4.8

##### **5-Chloro-2-methyl-4-isothiazolin-3-one:**

Partition coefficient: n-octanol/water : log Pow: 0.401



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octanol/water

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- |                        |                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : Dispose of in accordance with local regulations.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. |
| Contaminated packaging | : Dispose of as unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                                             |
- 

## SECTION 14: Transport information

### 14.1 UN number

- |      |           |
|------|-----------|
| ADN  | : UN 3082 |
| ADR  | : UN 3082 |
| RID  | : UN 3082 |
| IMDG | : UN 3082 |
| IATA | : UN 3082 |

### 14.2 UN proper shipping name

- |      |                                                                      |
|------|----------------------------------------------------------------------|
| ADN  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Triclosan) |
| ADR  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Triclosan) |
| RID  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Triclosan) |
| IMDG | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Triclosan) |

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**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Triclosan)

### 14.3 Transport hazard class(es)

**ADN** : 9

**ADR** : 9

**RID** : 9

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

#### **ADN**

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

#### **ADR**

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (E)

#### **RID**

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

#### **IMDG**

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

#### **IATA**

Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

#### **ADN**

Environmentally hazardous : yes

#### **ADR**

Environmentally hazardous : yes

#### **RID**

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Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable for product as supplied.

### SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

		Quantity 1	Quantity 2
9a	Dangerous for the environment	100 t	200 t

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1	ENVIRONMENTAL HAZARDS	100 t	200 t
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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: < 1 %

#### The components of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

### Full text of R-Phrases

R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.  
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.  
R34 : Causes burns.  
R36/38 : Irritating to eyes and skin.  
R43 : May cause sensitisation by skin contact.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Full text of H-Statements

H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H311 : Toxic in contact with skin.  
H312 : Harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Irrit. : Eye irritation  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT SE : Specific target organ toxicity - single exposure  
2006/15/EC : Europe. Indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2006/15/EC / TWA : Limit Value - eight hours  
2006/15/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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GB / EN

