

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture, Liquid  
Product name : CytoRinse  
Product code : CYTO-2002

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Professional use  
Use of the substance/mixture : Health Care

**1.2.2. Uses advised against**

No additional information available

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

Cytomark, a division of Caltag Medsystems  
Whiteleaf Business Centre  
11 Little Balmer  
Buckingham, MK18 1TF - United Kingdom  
T +44 1280 827460  
[Support@cytomark.co.uk](mailto:Support@cytomark.co.uk)

**1.4. Emergency telephone number**

Emergency number : +44 (0)1280 827460  
Office hours only.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]****Health Hazards**

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.

**Environmental Hazards**

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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**Adverse physicochemical, human health and environmental effects****2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Contains:** Sodium Hypochlorite

**Signal Word:** Warning

**Hazard Statement(s):**

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements Prevention:**

P264: Wash thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P332+P313: If skin irritation occurs: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**Disposal:**

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Hypochlorite	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 605-001-00-5 (REACH-no) 01-2119488154-34	< 1	Skin Corr. 1B H314, Aquatic Acute 1 H400, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400, Aquatic Chronic 1 H410

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation: If experiencing respiratory symptoms: Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion: If you feel unwell, seek medical advice.

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

May cause irritation to skin, eyes and respiratory tract.

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

Treat symptomatically. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : None.

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

Fire hazard : The product is not flammable.  
Explosion hazard : Product is not explosive.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.  
Firefighting instructions : Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

General measures : None under normal use.

#### 6.1.1. For non-emergency personnel

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Absorb spillage.

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Methods for cleaning up : Absorb with liquid-binding material.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Always wash hands after handling the product.  
Hygiene measures : Always wash hands after handling the product.

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

Technical measures : Does not require any specific or particular technical measures.  
Storage conditions : Keep only in the original container in a cool, dry place. Keep container tightly closed.  
Incompatible products : No data available  
Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Contains no substances with occupational exposure limit values

### 8.2. Exposure controls

**Appropriate engineering controls:** Ensure adequate ventilation.

**Personal protective equipment:** Avoid all unnecessary exposure.

**Hand protection:** Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals.

**Eye protection:** Chemical goggles or safety glasses. Standard EN 166 - Personal eye-protection - specifications

**Skin and body protection:** Wear a lab coat or similar protective clothing

**Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn

**Other information:** Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Colour : Colourless  
Odour : Chlorine odor  
Odour threshold : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Non flammable.  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Solubility : Soluble  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

#### 10.4. Conditions to avoid

No special precautions.

#### 10.5. Incompatible materials

Acids.

#### 10.6. Hazardous decomposition products

Not determined.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Information on likely routes of exposure

**Inhalation:** None known or expected under normal use.

**Skin Contact:** Causes mild skin irritation.

**Eye contact:** None known or expected under normal use.

**Ingestion:** No adverse effects due to ingestion are expected.

##### Acute toxicity:

###### Oral

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)** Sodium hypochlorite LD 50 (Rat): 8.910 mg/kg

##### Skin corrosion/irritation:

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)** Sodium hypochlorite LD 50 (Rabbit) : > 10.000 mg/kg  
LOAEL (Rabbit) : 20.000 mg/kg

##### Serious eye damage/irritation:

**Product:** Not known.

**Specified substance(s)** Sodium hypochlorite Irritating  
in vivo (Rabbit, 24 - 72 hrs): Irritating

##### Inhalation:

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)** Sodium hypochlorite LC 50 (Rat, 1 h): > 10,5 mg/l.

##### Repeated dose toxicity

**Product:** None known.

**Specified substance(s)** Sodium hypochlorite NOAEL (Rat, Oral, 28 d):  $\geq$  683 mg/kg  
NOAEL (Rat, Oral, 103 - 104 Weeks): > 15,7 mg/kg  
NOAEL (Rat, Oral, 90 d): 50 - 57,2 mg/kg  
LOAEL (Rat, Oral, 90 d): 100 - 114,4 mg/kg

##### Respiratory or Skin Sensitisation:

**Product:** Not a skin nor a respiratory sensitizer.

**Specified substance(s)** Sodium hypochlorite No data available.

##### Germ cell mutagenicity:

No mutagenic components identified

##### Carcinogenicity:

This substance has no evidence of carcinogenic properties.

##### Reproductive toxicity:

No components toxic to reproduction

##### STOT-single exposure:

None known.

##### STOT-repeated exposure:

None known.

##### Aspiration hazard:

Not classified.

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### Potential adverse human health effects and symptoms:

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

**General information:** Contains a substance which causes risk of hazardous effects to the environment. Not regulated

#### Acute aquatic toxicity:

##### Fish

**Product:** No data available.

**Specified substance(s)** Sodium hypochlorite LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 96 h): 0,05 - 0,449 mg/l  
LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 0,06 - 8,0 mg/l  
LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 0,28 - 2,64 mg/l  
LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 96 h): 0,023 - 0,052 mg/l

#### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)** Sodium hypochlorite LC 50 (Water flea (*Daphnia magna*), 48 h): 0,001 - 0,06 mg/l  
NOAEL (*Ceriodaphnia dubia*, 48 h): 25 µg/l  
EC 50 (*Ceriodaphnia dubia*, 48 h): 35 µg/l  
EC 50 (Water flea (*Daphnia magna*), 48 h): 0,141 mg/l  
NOAEL (Water flea (*Daphnia magna*), 48 h): 50 µg/l

#### Chronic toxicity

##### Fish

**Product:** No data available.

**Specified substance(s)** Sodium hypochlorite NOAEL (Various, 15 d): 0,014 - 0,062 mg/l  
LOAEL (Various, 15 d): 0,014 mg/l

#### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)** Sodium hypochlorite NOAEL (*V. iris* (*Ambloplites rupestris*) and *Cottus carolinae* (*E. capsaeformis*), 21 d): 10 - 30 µg/l  
LOAEL (*V. iris* (*Ambloplites rupestris*) and *Cottus carolinae* (*E. capsaeformis*), 21 d): 20 - 60 µg/l

#### Toxicity to aquatic plants

**Product:** No data available.

**Specified substance(s)** Sodium hypochlorite LC 50 (Red algae (*Porphyra yezoensis*), 10 d): 2,3 mg/l

#### Chronic aquatic toxicity:

Not classified

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 2012/18/EU (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No	Concentration
Sodium hypochlorite	7681-52-9	0,5 - 0,7%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No	Concentration
Sodium hypochlorite	7681-52-9	0,5 - 0,7%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No	Concentration
Sodium hypochlorite	7681-52-9	0,1 – 1.0%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No	Concentration
Sodium hypochlorite	7681-52-9	0,5 – 0.7%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No	Concentration
Sodium hypochlorite	7681-52-9	0,5 – 0.7%

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### Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No	Concentration
Sodium hypochlorite	7681-52-9	0,1 – 1.0%

Listed on the Candidate List of substances of very high concern (SVHC) Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List Contains: none.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

### Wording of the H-statements in sections 2 and 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II) -

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*