



SAFETY DATA SHEET – RINSE AID BLUX

(based on: Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).)

Date: 27.05.2015

Replaces the edition from: 09.01.2014  
4<sup>th</sup> edition

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1. Product identifier**

Rinse aid Blux.

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

Identified uses: it makes the dishes dry without stains or streak marks.

Uses advised against: not defined.

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

Address of the supplier and manufacturer :

BluxCosmetics Sp. z o.o., 36-071 Trzciana 243b

tel. +48 17 855 14 71; fax. +48 17 855 10 63

e-mail address: [biuro@blux.com.pl](mailto:biuro@blux.com.pl)

[www.blux.eu](http://www.blux.eu)

E-mail address to a person responsible for this safety data sheet:

[lab@blux.com.pl](mailto:lab@blux.com.pl)

**1.4. Emergency telephone number**

Manufacturer – during office hours: Mon.-Fri. 8-16: +48 17 855 14 71

Emergency telephone number: **112** (available round the clock)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture.**

According to directive 1999/45/EC:

**The mixture is CLASSIFIED as hazardous. The mixture is irritating; irritating to eyes. R36.**

According to Regulation (EC) No. 1272/2008 (CLP):

**The mixture is CLASSIFIED as hazardous.**

**Eyes irritating, cat. 2, H319.**

**Adverse effects:**

**- on human health:**

Inhalation: in normal conditions does not concern.

Ingestion: the mixture is not classified as hazardous after ingesting, yet it contains sodium dodecylbenzensulfonate which has such effect.

Skin: the mixture is not classified as irritating for skin, yet in case of a prolonged contact with skin, a little irritation, dryness or cracking can occur.

Eyes: the mixture is irritating to eyes. Symptoms: redness, itching, burning sensation, lacrimation.

**- on environment:**

Mixture ingredients can pervade ground waters and soil.

**- physicochemical:**

Does not concern.

**2.2. Label elements.**

**INDICATION OF DANGER:**

**HAZARD PICTOGRAM(S): GHS07:**





**SIGNAL WORD(S):** Warning.

**HAZARD STATEMENT(S):**

**H319** Causes serious eye irritation.

**PRECAUTIONARY STATEMENT(S):**

**General:**

**P102** Keep out of reach of children.

**Prevention:**

**P264** Wash hands thoroughly after handling.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337 + P313** If eye irritation persists: Get medical advice/attention.

**Supplementary hazard statement Code(s):**

**EUH 208** Contains mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one in a ratio of 3:1. May produce an allergic reaction.

**2.3. Other hazards.**

Other hazards – the mixture was not tested to check whether it meets the criteria for PBT or vPvB.

**Information on ingredients: see section 12.**



### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substances.



**DOES NOT CONCERN**

#### 3.2. Mixtures.

The substances are mentioned below due to their classifications and contents of more than 1% in the mixture.

SODIUM LAURETH SULFATE			
CAS: 68891-38-3	WE: 500-234-8	index number: does not concern	registration number: 01-2117488639-16-XXXX
Contents in the mixture: $5\% \leq c < 8\%$			
CLASSIFICATION DUE TO 67/548/EEC:	 Xi – irritant; R38 Irritating to skin. R41 Risk of serious damage to eyes. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
CLASSIFICATION DUE TO 1272/2008/EC:	Irritating to skin., 2 <sup>nd</sup> category H 315, can cause serious eyes damage – category of danger 1 H318. Harmful to aquatic organisms, may cause long-term effects (Aquatic Chronic 3) H412.		
GHS 05:  warning word: danger; H315, H318, H412.			

SODIUM DODECYLBENZENSULFONATE			
CAS: 68411-30-3	WE: 270-115-0	index number: does not concern	registration number: 01-2119489428-22-XXXX.

Contents in the mixture:  $3\% \leq c < 5\%$ CLASSIFICATION DUE TO  
67/548/EEC:Xn – harmful; Xi – irritant; R22 Harmful if swallowed. R38 Irritating to skin.  
R41 Risk of serious damage to eyes.CLASSIFICATION DUE TO  
1272/2008/EC:Acute toxicity (alimentary canal) category fo danger 4 (Acute Tox. 4) H302; Irritating to skin., 2<sup>nd</sup> category (Skin Irrit.2) H 315, can cause serious eyes damage – category of danger 1 (Eye Damage 1) H318.GHS 05: ; GHS07:  warning word: danger; H302, H315, H318.


## CITRIC ACID

CAS: 5949-21-1

WE: 201-069-1

index number: does not  
concernregistration number:  
01-2119457026-42-XXXXContents in the mixture:  $2\% \leq c < 5\%$ CLASSIFICATION DUE TO  
67/548/EEC:

Xi – irritant; R36 Irritating to eyes.

CLASSIFICATION DUE TO  
1272/2008/EC:Irritating to eyes, 2<sup>nd</sup> category; H319  
GHS07 ; warning word: warning; H319.

## SECTION 4: FIRST AID MEASURES

## 4.1. Description of first aid measures.

## By routes of exposure:

**Inhalation:** does not concern.**Skin:** rinse the contaminated surface with water. In case of alarming symptoms (itching, redness) – contact a physician.**Eyes:** Rinse eyes with plenty of water, with your eyelids exposed, for at least 15min. In case of alarming symptoms, contact an ophthalmologist.**Ingestion:** Rinse your mouth with water. Call the physician. Do not induce vomiting.

## If the exposed individual is unconscious:

- **DO NOT** give anything to drink
- **IMMEDIATELY** call for medical help
- **LAY** the sufferer in a lateral position

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

## By routes of exposure:

**Inhalation:** in normal conditions of use, it is not hazardous.**Skin:** in specific conditions in cas cause irritation and redness of skin.**Eyes:** it is irritating to eyes. Symptoms: redness, itching, burning sensation, lacrimation.**Ingestion:** in normal conditions of use, it is not hazardous.

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

In case of emergency, during which ingestion took place, call for the physician.



## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media.

**Suitable extinguishing media:** available ones.

**Unsuitable extinguishing media:** does not concern.

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

Ingredients of the mixture (sodium dodecylbenzenesulfonate and Sodium Laureth-2 Sulfate), can decompose during fire and emit dangerous gases, e.g. sulphur dioxide.

### 5.3. Advice for fire-fighters.

Isolating oxygen mask and protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Protective clothing, gloves from butyl rubber, protective glasses. Avoid eyes and skin contamination.

### 6.2. Environmental precautions.

Do not allow big amounts of liquid to be released to sewage system, soil, ground or surface water.

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

In case of a big leakage: bund the leakage area, pump out the mixture to hermetic containers and submit to utilization.

Rinse the contaminated surface with a lot of water. Submit water from first rinsing to utilization.

In case of a small leakage: mechanically collect spoiled liquid using incombustible absorbent materials to hermetic containers and submit to utilization.

### 6.4. Reference to other sections.

Requirements connected with protective clothing - see section 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling.

Use the product in accordance with its destination. Avoid contact with eyes.

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

Store only in original packagings. Keep the product out of the reach of children. Conditions for storage and any incompatibilities – see section 10.

### 7.3. Specific end use(s).

Not specified.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters.

SUBSTANCE	OEL (Occupational Exposure Limit) [mg/m <sup>3</sup> ]	STEL (Short Term Exposure Limit) [mg/m <sup>3l</sup> ]
Sodium Dodecylbenzenesulfonate	Not marked	Not marked
Sodium Laureth Sulfate	Not marked	Not marked
Citric acid	Not marked	Not marked

### Derived effect.



SUBSTANCE	TYPE	EXPOSURE	VALUE	POPULATION	DISTURBANCE
Sodium laureth sulfate	DNEL (Derived No Effect Level)	Long-term, skin	2750 mg/kg bw/ day	Employees	-----
		Long term, inhalation	175 mg/m <sup>3</sup>	Employees	-----
Sodium Dodecylbenzenesulfonate	DNEL (Derived No Effect Level)	Long-term, skin	170 mg/kg bw/ day	Employees	-----
		Long-term, inhalation	12 mg/m <sup>3</sup>	Employees	-----
		Long-term oral	0,85 mg/kg bw/ day	Consumers	-----
		Long-term, skin	85 mg/kg bw/ day	Consumers	-----
		Long-term, inhalation	3 mg/cm <sup>3</sup>	Consumers	-----

### Predicted effect.

SUBSTANCE	TYPE	DETAILED DATA, MEDIUM RANGE	VALUE	METHODOLOGY DETAILS
Sodium laureth sulfate	PNEC (Predicted No Effect Concentration)	Water (fresh)	0,24 mg/l	Assesment factors
		Sediment (fresh water)	5,45 mg/kg dwt	Equivalent division
		Soil	0,946 mg/kg dwt	Equivalent division
Sodium Dodecylbenzenesulfonate	PNEC (Predicted No Effect Concentration)	Water (fresh)	0,268 mg/l	Assesment factors
		Water (sea)	0,0268 mg/l	Assesment factors
		Sediment	8,1 mg/kg	Assesment factors
		Water (sea)	0,0167 mg/l	Assesment factors
		Sewage plant	3,43 mg/l	Assesment factors

According to the Act of Ministry of Labour and Social Policy from 29<sup>th</sup> November 2002; (Journal of Laws No. 217, item 1833) with further amendments.

If the mixture is used in working environment – employer should follow the Act of the Minister of Health from 20<sup>th</sup> April 2005 concerning the tests and measurements of dangerous to health factors which occur in the working environment (Act 73, position 645).

## 8.2. Exposure controls.

### 8.2.1 Appropriate engineering controls:

If the product is used in a working environment – see point 8.1.

Employer is obliged to match, deliver and guarantee a conservation of personal protective equipment – if required.

If the concentration of the substance in the working environment is known – the selection of personal protective equipment should be based on the concentration, time of exposure and a type of activity made by an employee.

If the concentration is unknown – the highest advised class of protection should be selected for the personal protective equipment.

### 8.2.2 Individual protection measures, such as personal protective equipment

#### Eye / face protection:

Protective glasses.

#### Skin protection:

Protective clothing (e.g. apron).

#### Hand protection:

Protective gloves.

#### Respiratory protection:

Does not concern.

#### Thermal hazards:

Does not concern.



### 8.2.3 Environmental exposure controls:

The mixture is not classified as hazardous to environment, however one should avoid situations in which product residues or products unfit for use are removed to environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Blue, transparent liquid
Odour	characteristic, but very light
Odour threshold	no data / no tests conducted
pH	Acid, about 2-3
Melting point / freezing point	no data / no tests conducted
Initial boiling point and boiling range	no data / no tests conducted
Flash point	no data / no tests conducted
Evaporation rate	no data / no tests conducted
Flammability (solid, gas)	no data / no tests conducted
Upper / lower flammability or explosive limits	no data / no tests conducted
Vapour pressure	no data / no tests conducted
Vapour density	no data / no tests conducted
Relative density	1,025 +/- 0,005
Solubility(ies)	sluble in water
Partition coefficient - n-octanol/water	no data / no tests conducted
Auto-ignition temperature	no data / no tests conducted
Decomposition temperature	no data / no tests conducted
Viscosity	no data / no tests conducted
Explosive properties	no data / no tests conducted
Oxidising properties	no data / no tests conducted

### 9.2. Other information.

No additional information.

## SECTION 10: SOLUBILITY AND REACTIVITY

### 10.1. Reactivity.

No tests or information on the mixture.

Information on the ingredients of the mixture:

Sodium Laureth Sulfate: lack of specific test data.

Sodium Dodecylbenzenesulfonate: in normal conditions of use the substance is not reactive.

Citric acid: no data.

### 10.2. Chemical stability.

In normal conditions – the mixture is stable.

### 10.3. Possibility of hazardous reactions.



In normal conditions of use there are no hazardous reactions.

#### 10.4. Conditions to avoid.

High temperatures, direct sunlight.

#### 10.5. Incompatible materials.

Alkali, strong oxidizers.

#### 10.6. Hazardous decomposition products.

Sulphur dioxide, carbon oxide, nitric oxide.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects.

##### 11.1.1 Substances.

Does not concern. The subject of this safety data sheet is a mixture.

##### 11.1.2 Mixture:

No tests conducted for the mixture.

Concerning the classification of the mixture with the computational method – it was not classified as hazardous to health.

#### For the mixture ingredients:

##### a) acute toxicity

INGREDIENT	ACUTE TOXICITY		
	ORALLY LD <sub>50</sub> [mg/kg]	WITH SKIN CONTACT LD <sub>50</sub> [mg/kg]	INHALATION LC <sub>50</sub>
Sodium Laureth Sulfate	>2500 (rat – male, female)	>2000 (rat – male, female)	No data.
Sodium Dodecylbenzenesulfonate	1080 (rat)	>2000 (rat)	No data.
Citric acid	11700 (rat), 5040 (mouse)	885 (rat), 961 (mouse)	No data.

##### b) irritation:

###### on skin

Sodium Laureth Sulfate: is irritant to skin.

Sodium Dodecylbenzenesulfonate: is irritant to skin.

Citric acid: can cause skin irritation.

###### serious eye damage / irritant to eyes

Sodium Laureth Sulfate: causes serious eyes burn.

Sodium Dodecylbenzenesulfonate: causes serious eye damage.

Citric acid: causes eyes irritation.

##### c) corrosivity:

None of the substances is corrosive.

##### d) sensitisation:

Sodium Laureth Sulfate: has no allergenic effect on skin.

Sodium Dodecylbenzenesulfonate: is not allergenic.

Citric acid: no data.

##### e) repeated dose toxicity:

Sodium Laureth Sulfate: no data.

Sodium Dodecylbenzenesulfonate: no data.

Citric acid: no data.

**f) carcinogenicity:**

Sodium Laureth Sulfate: no data.

Sodium Dodecylbenzenesulfonate: no carcinogenetic effect.

**g) mutagenicity:**

Sodium Laureth Sulfate: no mutagenic effect.

Sodium Dodecylbenzenesulfonate: no mutagenic effect.

**h) toxicity for reproduction:**

Sodium Laureth Sulfate: no mutagenic effect in standard toxicological-genetic tests.

Sodium Dodecylbenzenesulfonate: no information about unwanted effects or critical hazards.

Citric acid: no data.

**i) STOT – single exposure:**

Sodium Laureth Sulfate: no data.

Sodium Dodecylbenzenesulfonate: no data.

Citric acid: no data.

**j) STOT – repeated exposure:**

Sodium Laureth Sulfate: no data.

Sodium Dodecylbenzenesulfonate: no data.

Citric acid: no data.

**k) aspiration hazard:**

Sodium Laureth Sulfate: no data.

Sodium Dodecylbenzenesulfonate: no data.

Citric acid: no data.

**Information on likely routes of exposure:**

Routes of enter: respiratory tract, skin / eyes and alimentary canal.

Due to the fact that there were no test conducted for a mixture – exposure effects for each substance – see above.

**Other information:**

One should remember that substances in the mixture can affect each other in the organism causing change of speed of absorption, metabolism and excretion. As a result, a toxic effect of each substance can be changed and the general toxicity of the mixture can be different than its ingredients. Due to the fact that the mixture was not tested in connection with toxicity, one should take precautions while using it to minimize exposure.

## SECTION 12: ECOLOGICAL INFORMATION

No tests concerning the hazardous impact of the mixture on the environment were conducted.

All the below data concern the ingredients of the mixture.

### 12.1. Toxicity

INGREDIENT	ACUTE TOXICITY			
	FOR FISH	FOR WATER INVERTEBRATE	FOR ALGAE	FOR BACTERIA
Sodium Laureth Sulfate	LC <sub>50</sub> : 7,1 mg/dm <sup>3</sup> (Brachydanio rerio)	EC <sub>50</sub> 7,2 mg/dm <sup>3</sup> (Daphnia magna)	EC <sub>50</sub> : 2,6 mg/dm <sup>3</sup> /72h (Desmodesmus subspicatus)	No data
Sodium Dodecylbenzenesulfonate	No information about unwanted effects or critical hazards.			
Citric acid	LC <sub>50</sub> 440-706mg/l /96h (gold fish)	No data.	No data.	No data





### 12.2. Persistence and degradability.

INGREDIENT	PERSISTENCE AND DEGRADABILITY
Sodium Laureth Sulfate	Test EU EEC C.4-D 68% - easily – 28 days
Sodium Dodecylbenzenesulfonate	Test EU EEC C.4-D 64,1% - easily – 28 days
Citric acid	Easily biodegradable >98% after 2 days (OECD 302B). Chemical demand for oxygen (COD): 728 mg O <sub>2</sub> /g. Biological demand for oxygen during 5 days (BOD <sub>5</sub> ): 526 mg O <sub>2</sub> /g.

### 12.3. Bioaccumulative potential.

INGREDIENT	OCTANOL – WATER PARTITION COEFFICIENT (K <sub>ow</sub> )	BIOACCUMULATIVE POTENTIAL
Sodium Dodecylbenzenesulfonate	LogPow = -1,38	Low.
Sodium Laureth Sulfate	LogPow >1	Low.
Citric acid	No data	No data.

### 12.4. Mobility in soil.

INGREDIENT	MOBILITY IN SOIL
Sodium Dodecylbenzenesulfonate	After dissolving in water it can pervade to ground waters.
Sodium Laureth Sulfate	Low mobility in soil, soil-water division coefficient: 3,4
Citric acid	No data.

### 12.5. Results of PBT and vPvB assessment.

INGREDIENT	RESULTS OF PBT AND vPvB ASSESSMENT
Sodium Dodecylbenzenesulfonate	No.
Sodium Laureth Sulfate	No.
Citric acid	No data.

### 12.6. Other adverse effects.

INGREDIENT	OTHER ADVERSE EFFECTS
Sodium Dodecylbenzenesulfonate	No information about unwanted effects or critical hazards.
Sodium Laureth Sulfate	No information about unwanted effects or critical hazards.
Citric acid	No data.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods.

#### a) Waste treatment containers & methods:

All the content of the package should be used. When the content is finished, the packaging should be rinsed and submitted to utilization company as wasted packaging from plastic or throw it to a bin. Do not remove to the environment products with expired date of use, useless or half used packagings.

#### b) Physical / chemical properties that may affect waste treatment.

No information or data.

#### c) Sewage disposal. Sewage disposal is not recommended.

#### d) Special precautions for any recommended waste treatment option:

In the field of waste treatment, one should comply with the following laws:



- Act on waste of 27<sup>th</sup> April 2001 (Journal of Laws No. 62, item 628) with further amendments.
- Act of 11 May 2001 on Packaging and Packaging Waste (Journal of Laws No. 63, item 638) with further amendments.
- Regulation of the Minister of Environment of 27 September 2001 on the catalogue of wastes (Journal of Laws No. 112, item 1206).

#### SECTION 14: TRANSPORT INFORMATION

The mixture is not subjected to any transport restrictions.

- 14.1. UN number:** does not concern.
- 14.2. UN proper shipping name:** does not concern.
- 14.3. Transport hazard class(es):** does not concern.
- 14.4. Packing group:** does not concern.
- 14.5. Environmental hazards:** does not concern.
- 14.6. Special precautions for user:** does not concern.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** does not concern.

#### SECTION 15: REGULATORY INFORMATION

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

- Ordinance of the Minister of Health dated 10 August 2012 on criteria and classification methods of hazardous substances and preparations (Journal of Laws, No. 171, item 1666) with further amendments.
- Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations (Journal of Laws L. 200 from 30<sup>th</sup> June 1999, p.1).
- Ordinance of the Minister of Health dated 13 November on Safety Data Sheet (Journal of Laws, from 2007; No. 215, items 1587 and 1588).
- 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 (Journal of Laws EU L 353 from 31.12.2008/, p.1).
- Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Journal of Laws EU L 133 from 31.05.2010).
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Journal of Laws UE L 396 from 30.12.2006, p.1) with further changes.
- Act on waste of 27<sup>th</sup> April 2001 (Journal of Laws No. 62, item 628) with further amendments.
- Act of 11 May 2001 on Packaging and Packaging Waste (Journal of Laws No. 63, item 638) with further amendments.
- Regulation of the Minister of Environment of 27 September 2001 on the catalogue of wastes (Journal of Laws No. 112, item 1206).
- Ordinance of the Minister of Health dated 20 April 2005 on tests and measurements of factors hazardous for health in the working environment (Journal of Laws No. 73, item 645).
- Act of Ministry of Labour and Social Policy from 29<sup>th</sup> November 2002; (Journal of Laws No. 217, item 1833) with further amendments.
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (Journal of Laws EU L104, pp.1-35) with further amendments.
- Ordinance of the Minister of Health dated 20<sup>th</sup> April 2012 on marking packagings of hazardous substances and preparations and some chemical substances (Journal of Laws 2009, No. 53, item 439).
- Act of 25<sup>th</sup> February 2011 about chemical substances and their mixtures (Journal of Laws No. 63, item 322).



## 15.2. Chemical safety assessment.

The manufacturer did not made an assessment of the chemical safety of the mixture – substances uses in the process of the production of this mixture were used in accordance with their identified uses.

## SECTION 16: OTHER INFORMATION

**a) Modifications introduced to the Safety Data Sheet:** general actualization; classification in accordance with Regulation 1272/2008/EC (CLP). Information on ingredients was updated.

**b) Abbreviations and acronyms used in the Safety Data Sheet:**

OEL – Occupational Exposure Limit  
STEL – Short Term Exposure Limit  
DNEL – Derived No Effect Level  
PNEC – Predicted No Effect Concentration in Environment

**c) Key literature references and sources for data:**

All data regarding the substances present in the mixture were taken from individual Safety Data Sheet provided by the suppliers.

**d) Classification method:**

Classification according to the ordinance of the Minister of Health dated 2 September 2003 on criteria and classification methods of hazardous substances and preparations (Journal of Laws, No. 171, item 1666) with further amendments – also in agreement with directive 1999/45/EC, and Regulation (EC) No 1272/2008 CLP. The mixture was classified and marked in accordance with regulation 1272/2008/EC (CLP) before the set time limit. The classification and marking are given in section 2.

**e) List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements:**

R22 Harmful if swallowed.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
H302 – harmful if swallowed  
H315 – causes skin irritation  
H319 – irritating to eyes  
H318 – causes serious eye damage  
H412 - Harmful to aquatic life with long lasting effects.  
P102 Keep out of reach of children.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
Response:  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
EUH 208 Contains mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one in a ratio of 3:1. May produce an allergic reaction.

**f) Advice on any training appropriate for workers to ensure protection of human health and the environment.**

The employer is obliged to inform all the employees who are in contact with the product about any hazards and personal precautions mentioned in the present document.