

# **SAFETY DATA SHEET**

## Tilex® Mold & Mildew Remover - US

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name Tilex® Mold & Mildew Remover - US

Product number TX01100US, TX01234US

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

**Identified uses** Kills and removes mildew stains.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier CBee (Europe) Ltd.

Eton House, 2nd Floor,

18 - 24 Paradise Road,

Richmond, TW9 1SE UK

tel: +44 (0) 208 614 7120 fax: +44 (0) 208 940 2040 consumerservices@clorox.co.uk

1.4. Emergency telephone number

**Emergency telephone** +44 (0) 208 614 7120

Monday - Thursday:- 09:00 - 17:30

Friday:- 09:00 - 17:00

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Eye Irrit. 2 - H319

**Environmental hazards** 

Aquatic Acute 1 - H400

Classification (67/548/EEC or 1999/45/EC)

Xi; R36. N; R50

2.2. Label elements

**Pictogram** 





Signal word

Revision date: 14/05/2014 Revision: 4 Supersedes date: 01/03/2014

### Tilex® Mold & Mildew Remover - US

#### Hazard statements

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

### **Precautionary statements**

P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment. P280 Wear eye and face protection.

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

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

P501 Dispose of contents/container in accordance with national regulations.

## Supplemental label information

EUH206 Warning! Do not use together with other products. May release dangerous gases

(chlorine).

Contains Sodium hypochlorite, solution 2.85 % Cl active

**Detergent labelling** < 5% disinfectants, < 5% perfumes

#### Supplementary precautionary statements

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

P391 Collect spillage.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Sodium hypochlorite, solution % Cl active | 2.85% |
|---|-------|
|---|-------|

**CAS number:** 7681-52-9 **EC number:** 231-668-3

M factor (Acute) = 10

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

Skin Corr. 1B - H314 C; R34. N; R50. R31

Eye Dam. 1 - H318 Aquatic Acute 1 - H400

# sodium hydroxide 0.5 - <1%

**CAS number:** 1310-73-2 **EC number:** 215-185-5

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

Skin Corr. 1A - H314 C; R35

Eye Dam. 1 - H318

# Dodecyldimethylamine oxide 0.025 - <0.25%

CAS number: 1643-20-5 EC number: 216-700-6

M factor (Acute) = 1

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

Skin Irrit. 2 - H315 Xi; R41, R38. N; R50

Eye Dam. 1 - H318 Aquatic Acute 1 - H400

| Benzene                                  | <0.025%   |
|--|---|
| CAS number: 71-43-2 EC number: 200-753-7 |   |
| Classification                           | Classification (67/548/EEC or 1999/45/EC)   |
| Flam. Liq. 2 - H225                      | F; R11. T; R48/23/24/25. Xn; R65. Xi; R36/38. Carc. Cat. 1<br>R45. Muta. Cat. 2 R46 |
| Skin Irrit. 2 - H315                     |   |
| Eye Irrit. 2 - H319                      |   |
| Muta. 1B - H340                          |   |
| Carc. 1A - H350                          |   |
| STOT RE 1 - H372                         |   |
| Asp. Tox. 1 - H304                       |   |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

#### Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

#### Skin contact

Wash skin thoroughly with soap and water.

#### Eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse.

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

# Inhalation

Irritation of nose, throat and airway.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

Prolonged skin contact may cause redness and irritation.

### Eye contact

Irritation of eyes and mucous membranes. Prolonged contact may cause redness and/or tearing.

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

#### Notes for the doctor

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

# Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

# Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or

vapours.

## 5.3. Advice for firefighters

# Special protective equipment for firefighters

Use protective equipment appropriate for surrounding materials.

### **SECTION 6: Accidental release measures**

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

#### Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

#### **Environmental precautions**

Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground.

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

### Methods for cleaning up

Neutralise spilled material with diluted hydrochloric acid. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

#### 6.4. Reference to other sections

#### Reference to other sections

See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

### Usage precautions

Read and follow manufacturer's recommendations.

#### Advice on general occupational hygiene

Avoid contact with eyes and prolonged skin contact.

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

#### Storage precautions

Store in a cool and well-ventilated place.

# 7.3. Specific end use(s)

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### Occupational exposure limits

## sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m3

## Benzene

Long-term exposure limit (8-hour TWA): WEL 1 ppm 3.25 mg/m3

Carc, Sk

WEL = Workplace Exposure Limit

Carc = Capable of causing cancer and/or heritable genetic damage.

Sk = Can be absorbed through the skin.

## 8.2. Exposure controls

### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

No specific hand protection recommended.

### Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

# **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

## **Appearance**

Clear liquid.

#### Colour

Colourless to pale yellow.

#### Odour

Bleach Marine.

#### Odour threshold

Not determined.

#### pН

pH (concentrated solution): 12.4 - 12.8

## Melting point

Not relevant.

# Initial boiling point and range

Not determined.

## Flash point

Not determined.

#### **Evaporation rate**

Not determined.

### **Evaporation factor**

Not determined.

# Flammability (solid, gas)

Not relevant.

# Upper/lower flammability or explosive limits

Not relevant.

# Vapour pressure

Not determined.

# Vapour density

Not relevant.

# Relative density

1.04

## **Bulk density**

Not determined.

# Solubility(ies)

Completely soluble in water.

## Partition coefficient

Not determined.

# Auto-ignition temperature

Not relevant.

# **Decomposition Temperature**

Not relevant.

## Viscosity

Not determined.

## **Explosive properties**

Not considered to be explosive.

#### Oxidising properties

The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

#### 9.2. Other information

## Other information

No information required.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### Stability

Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

Will not polymerise.

## 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

## 10.5. Incompatible materials

## Materials to avoid

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

## 10.6. Hazardous decomposition products

None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### Acute toxicity - oral

Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

Based on available data the classification criteria are not met.

### **Acute toxicity - inhalation**

Based on available data the classification criteria are not met.

## Skin corrosion/irritation

# Animal data

Dose: 0.5 ml, Rabbit, Based on available data the classification criteria are not met.

## Serious eye damage/irritation

Eye Irrit. 2 - H319 May cause severe eye irritation.

## Respiratory sensitisation

Based on available data the classification criteria are not met.

# Skin sensitisation

Based on available data the classification criteria are not met.

# Germ cell mutagenicity

#### Genotoxicity - in vitro

Based on available data the classification criteria are not met.

#### Genotoxicity - in vivo

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

### Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

#### Reproductive toxicity - development

Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

### STOT - single exposure

Based on available data the classification criteria are not met.

## Specific target organ toxicity - repeated exposure

### STOT - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

#### Toxicological information on ingredients.

#### Sodium hypochlorite, solution ... % Cl active

## Acute toxicity - oral

# Acute toxicity oral (LD50 mg/kg)

8,830.0

#### **Species**

Rat

REACH dossier information. Based on available data the classification criteria are not met.

### ATE oral (mg/kg)

8,830.0

# Acute toxicity - dermal

### Acute toxicity dermal (LD50 mg/kg)

20000.0

## **Species**

Rabbit

REACH dossier information. Based on available data the classification criteria are not met.

# ATE dermal (mg/kg)

20000.0

### **Acute toxicity - inhalation**

Based on available data the classification criteria are not met.

## Skin corrosion/irritation

# Animal data

Dose: 5.3%, 4 hours, Rabbit Primary dermal irritation index: 1.2 Dose: 0.5 ml (12.5%), 24 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Corrosive to skin.

# Serious eye damage/irritation

Dose: 0.1 g, 1 second, Rabbit REACH dossier information. Corrosivity to eyes is assumed.

### **Skin sensitisation**

Buehler test - Guinea pig: Not sensitising. REACH dossier information.

## Germ cell mutagenicity

### Genotoxicity - in vitro

Chromosome aberration: Negative. REACH dossier information.

### Genotoxicity - in vivo

Chromosome aberration: Negative. REACH dossier information.

#### Carcinogenicity

NOAEL > 13.75 mg/kg/day, Oral, Rat REACH dossier information.

# IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Reproductive toxicity

### Reproductive toxicity - fertility

One-generation study - NOAEL > 5 mg/kg/day, Oral, Rat P REACH dossier information.

### Reproductive toxicity - development

Teratogenicity: - NOAEL: >=5.7 mg/kg/day, Oral, Rat REACH dossier information.

## Specific target organ toxicity - repeated exposure

### STOT - repeated exposure

LOAEL 100 mg/kg/day, Oral, Rat REACH dossier information.

#### Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

### sodium hydroxide

## Skin corrosion/irritation

## Animal data

Skin Corr. 1A - H314

## Serious eye damage/irritation

Dose: 0.1 ml (2%), 1 second, Rabbit REACH dossier information.

# **Skin sensitisation**

Patch test - Human: Not sensitising. REACH dossier information.

# **Aspiration hazard**

Not anticipated to present an aspiration hazard, based on chemical structure.

## **Dodecyldimethylamine oxide**

# Skin corrosion/irritation

### Animal data

Skin Irrit. 2 - H315

### Serious eye damage/irritation

Eye Dam. 1 - H318

## **SECTION 12: Ecological Information**

## 12.1. Toxicity

Aquatic Acute 1 - H400 Very toxic to aquatic life.

### Ecological information on ingredients.

## Sodium hypochlorite, solution ... % Cl active

## **Acute aquatic toxicity**

LE(C)50

 $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute)

10

Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 0.032 mg/l, Oncorhynchus kisutch (Coho salmon) REACH dossier information.

Acute toxicity - aquatic invertebrates

EC<sub>50</sub>, 48 hours: 0.141 mg/l, Daphnia magna REACH dossier information.

Acute toxicity - microorganisms

EC<sub>50</sub>, 3 hours: > 3 mg/l, Activated sludge REACH dossier information.

Acute toxicity - terrestrial

NOEC, 10 days: 200 mg/l, Coturnix coturnix japonica (Japanese quail) REACH dossier information.

Chronic toxicity - fish early life stage

NOEC, 28 days: 0.04 mg/l, Menidia peninsulae (Tidewater silverside) REACH dossier information.

Chronic toxicity - aquatic invertebrates

NOEC, 15 days: 0.007 mg/l, Freshwater invertebrates REACH dossier information.

## sodium hydroxide

Acute toxicity - fish

LC<sub>50</sub>, 48 hours: 189 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates

EC₅o, 48 hours: 40.4 mg/l, Ceriodaphnia REACH dossier information.

### **Dodecyldimethylamine oxide**

Aquatic Acute 1 - H400

# Acute aquatic toxicity

LE(C)50

 $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

1

## 12.2. Persistence and degradability

### Persistence and degradability

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

## Ecological information on ingredients.

## Sodium hypochlorite, solution ... % Cl active

#### **Phototransformation**

Air - DT₅o : 114.6 days Estimated value. Water - DT₅o : 12 minutes REACH dossier information.

## **Dodecyldimethylamine oxide**

# Persistence and degradability

The product is readily biodegradable.

## 12.3. Bioaccumulative potential

No data available on bioaccumulation.

#### Partition coefficient

Not determined.

## Ecological information on ingredients.

Sodium hypochlorite, solution ... % Cl active

## Partition coefficient

log Pow: -3.42 Estimated value. REACH dossier information.

# sodium hydroxide

The product is not bioaccumulating.

## 12.4. Mobility in soil

### Mobility

The product is soluble in water.

## Ecological information on ingredients.

## Sodium hypochlorite, solution ... % Cl active

#### Henry's law constant

0.076 @ 20°C Estimated value. REACH dossier information.

#### Surface tension

82.4 mN/m @ 20°C REACH dossier information.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

Not relevant.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### General information

When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste product or used containers in accordance with local regulations

### Disposal methods

Avoid the spillage or runoff entering drains, sewers or watercourses. Neutralise waste with diluted hydrochloric acid.

# **SECTION 14: Transport information**

# 14.1. UN number

UN No. (ADR/RID) 3082 UN No. (IMDG) 3082 UN No. (ICAO) 3082 UN No. (ADN) 3082

# 14.2. UN proper shipping name

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

(ADR/RID) HYPOCHLORITE)

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

(IMDG) HYPOCHLORITE)

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

(ICAO) HYPOCHLORITE)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE)

#### 14.3. Transport hazard class(es)

Revision date: 14/05/2014 Revision: 4 Supersedes date: 01/03/2014

### Tilex® Mold & Mildew Remover - US

ADR/RID class 9
ADR/RID classification code M6
ADR/RID label 9
IMDG class 9
ICAO class/division 9
ADN class 9

Transport labels



## 14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Yes.

## 14.6. Special precautions for user

**EmS** F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

# 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

# **SECTION 15: Regulatory information**

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

## National regulations

EH40/2005 Workplace exposure limits.

# **EU legislation**

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended) 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 (as amended).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### **SECTION 16: Other information**

### Classification procedures according to Regulation (EC) 1272/2008

Eye Irrit. 2 - H319, Aquatic Acute 1 - H400: Calculation method.

#### **Revision comments**

Classification according to CLP Annex I. **Revision date** 14/05/2014

Revision 4

Supersedes date 01/03/2014

SDS number 186

Risk phrases in full

R11 Highly flammable.

R31 Contact with acids liberates toxic gas.

R34 Causes burns.

R35 Causes severe burns.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R45 May cause cancer.

R46 May cause heritable genetic damage.

R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through

inhalation, in contact with skin and if swallowed.

R50 Very toxic to aquatic organisms.

R65 Harmful: may cause lung damage if swallowed.

#### Hazard statements in full

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H340 May cause genetic defects.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

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