

**SAFETY DATA SHEET****Clorox 2® Stain Remover & Colour Booster - Free & Clear**

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 Clorox 2® Stain Remover & Colour Booster - Free & Clear
Product number CX30046US

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

Identified uses Liquid laundry detergent.
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

Not Classified

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

Xi; R36

2.2. Label elements**Pictogram****Signal word**

Warning

Clorox 2® Stain Remover & Colour Booster - Free & Clear**Hazard statements**

H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

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.

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

Contains

Hydrogen peroxide solution 2.1 %

Detergent labelling

< 5% non-ionic surfactants, < 5% optical brighteners, < 5% oxygen-based bleaching agents

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**

Hydrogen peroxide solution ... % CAS number: 7722-84-1 EC number: 231-765-0	2.1%
Classification Ox. Liq. 1 - H271 Acute Tox. 4 - H302 Skin Corr. 1A - H314 STOT SE 3 - H335	Classification (67/548/EEC or 1999/45/EC) O; R5, R8. Xn; R20/22. C; R35
N,N-dimethyltetradecylamine N-oxide CAS number: 3332-27-2 EC number: 222-059-3 M factor (Acute) = 1	1 - <2.5%
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Xn; R22. Xi; R41, R38. N; R50
sodium hydroxide CAS number: 1310-73-2 EC number: 215-185-5	<0.025%
Classification Skin Corr. 1A - H314 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) C; R35

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.

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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

Avoid contact with eyes and prolonged skin contact. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

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

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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

Hydrogen peroxide solution ... %

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³

sodium hydroxide

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

WEL = Workplace Exposure Limit

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

Viscous liquid.

Colour

Colourless.

Odour

Slight.

Odour threshold

Not determined.

pH

pH (concentrated solution): 9 - 10

Melting point

Not relevant.

Initial boiling point and range

Not determined.

Flash point

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> 93°C CC (Closed cup).

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

Bulk density

Not determined.

Solubility(ies)

Soluble in water.

Partition coefficient

Not determined.

Auto-ignition temperature

Not relevant.

Decomposition Temperature

Not relevant.

Viscosity

Kinematic viscosity > 20.5 mm²/s.

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**

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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.

ATE oral (mg/kg)

28,083.34897691

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

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.

Clorox 2® Stain Remover & Colour Booster - Free & Clear**Hydrogen peroxide solution ... %****Acute toxicity - oral****Acute toxicity oral (LD50 mg/kg)**

800.0

Species

Rat

REACH dossier information.

ATE oral (mg/kg)

800.0

Skin corrosion/irritation**Animal data**

Dose: 0.5 ml (10%), 4 hours, Rabbit Primary dermal irritation index: 0.08 (10%) Dose: 0.5 ml (35%), 4 hours, Rabbit Primary dermal irritation index: 1.6 (35%) REACH dossier information.

Serious eye damage/irritation

Dose: 0.1 ml (6%), 20 seconds, Rabbit REACH dossier information.

Germ cell mutagenicity**Genotoxicity - in vitro**

Chromosome aberration: Negative. REACH dossier information.

Genotoxicity - in vivo

Chromosome aberration: Negative. REACH dossier information.

Specific target organ toxicity - single exposure**STOT - single exposure**

STOT SE 3 - H335

Specific target organ toxicity - repeated exposure**STOT - repeated exposure**

NOAEL 2.9 mg/m³, Inhalation, Rat REACH dossier information.

Aspiration hazard

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

Clorox 2® Stain Remover & Colour Booster - Free & Clear**N,N-dimethyltetradecylamine N-oxide****Acute toxicity - oral****Acute toxicity oral (LD50 mg/kg)**

1,496.0

Species

Rat

REACH dossier information. Acute Tox. 4 - H302

ATE oral (mg/kg)

1,496.0

Skin corrosion/irritation**Animal data**

Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Skin Irrit. 2 - H315

Serious eye damage/irritation

Dose: 0.1 ml, 21 days, Rabbit REACH dossier information. Eye Dam. 1 - H318

Skin sensitisation

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

Germ cell mutagenicity**Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information.

Reproductive toxicity**Reproductive toxicity - fertility**

Screening - NOAEL 100 mg/kg/day, Oral, Rat P REACH dossier information. Estimated value.

Reproductive toxicity - development

Developmental toxicity: - NOAEL: 25 mg/kg/day, Oral, Rat REACH dossier information. Estimated value.

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.

SECTION 12: Ecological Information

12.1. Toxicity

Not considered toxic to fish.

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Ecological information on ingredients.

Hydrogen peroxide solution ... %

Acute toxicity - fish

LC₅₀, 96 hours: 16.4 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.

Acute toxicity - aquatic invertebrates

LC₅₀, 48 hours: 2.4 mg/l, Daphnia pulex REACH dossier information.

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 1.38 mg/l, Marinewater algae REACH dossier information.

Acute toxicity - microorganisms

EC₅₀, 30 minutes: 466 mg/l, Activated sludge REACH dossier information.

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.63 mg/l, Daphnia magna REACH dossier information.

N,N-dimethyltetradecylamine N-oxide

Acute aquatic toxicity

LE(C)₅₀

0.1 < L(E)C₅₀ ≤ 1

M factor (Acute)

1

Acute toxicity - fish

LC₅₀, 96 hours: 2.4 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.

Acute toxicity - aquatic invertebrates

LC₅₀, 48 hours: 2.64 mg/l, Daphnia magna REACH dossier information.

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 0.81 mg/l, Selenastrum capricornutum REACH dossier information.

Chronic toxicity - fish early life stage

NOEC, 15 days: 0.98 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information. Estimated value.

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.7 mg/l, Daphnia magna REACH dossier information.

sodium hydroxide

Acute toxicity - fish

LC₅₀, 48 hours: 189 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 40.4 mg/l, Ceriodaphnia REACH dossier information.

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.

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Ecological information on ingredients.

Hydrogen peroxide solution ... %

Biodegradation

Water - Degradation >99%: 30 minutes Water and sediment - DT₅₀ : 7.8 hours REACH dossier information. The substance is readily biodegradable.

N,N-dimethyltetradecylamine N-oxide

Phototransformation

REACH dossier information.

Biodegradation

Water - Degradation (65.5%): 21 days REACH dossier information.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

Ecological information on ingredients.

N,N-dimethyltetradecylamine N-oxide

Partition coefficient

log Pow: 2.69 REACH dossier information. Estimated value.

sodium hydroxide

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

The product is soluble in water.

Ecological information on ingredients.

Hydrogen peroxide solution ... %

Henry's law constant

0.00075 Pa m³/mol @ 20°C REACH dossier information.

N,N-dimethyltetradecylamine N-oxide

Henry's law constant

0.000000018 Pa m³/mol @ 25°C Estimated value. REACH dossier information.

Surface tension

32.4 - 32.5 mN/m @ 21°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

Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Clorox 2® Stain Remover & Colour Booster - Free & Clear**14.1. UN number**

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user

Not applicable.

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: On basis of test data.

Revision comments

Classification according to CLP Annex I.

Revision date 14/05/2014**Revision** 2**Supersedes date** 01/09/2013**SDS number** 184**Risk phrases in full**

R5 Heating may cause an explosion.
 R8 Contact with combustible material may cause fire.
 R20/22 Harmful by inhalation and if swallowed.
 R22 Harmful if swallowed.
 R35 Causes severe burns.
 R38 Irritating to skin.
 R41 Risk of serious damage to eyes.
 R50 Very toxic to aquatic organisms.

Hazard statements in full

Clorox 2® Stain Remover & Colour Booster - Free & Clear

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

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