

## SAFETY DATA SHEET

# Thick Bleach

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

### 1.1. Product identifier

#### Trade name

Thick Bleach

#### Product no.

062392X5, 062400

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

#### Relevant identified uses of the substance or mixture

Cleaning product

#### Product code (A.I.S.E.)

##### Code

AISE-P305 / Sanitary cleaner. Manual process.

AISE-P314 / Surface disinfectant. Manual process.

AISE-P301 / General purpose cleaner. Manual process.

#### Use descriptors (REACH)

##### Sectors of use

##### Description

LCS "PW"

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

##### Product category

##### Description

PC35

Washing and Cleaning Products (including solvent based products)

#### Uses advised against

None known.

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

#### Company and address

##### Cleenol Group Ltd.

Neville House, Beaumont Road, Banbury, Oxon,

OX16 1RB

United Kingdom

Tel: +44(0) 1295 251 721

www.cleenol.com

#### Distributor

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www.cleenol.com

#### E-mail

technical.enquiries@cleenol.co.uk

#### Revision

17/02/2023

#### SDS Version

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.  
Skin Corr. 1; H314, Causes severe skin burns and eye damage.  
Eye Dam. 1; H318, Causes serious eye damage.  
Aquatic Acute 1; H400, Very toxic to aquatic life.

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

May be corrosive to metals. (H290)  
Causes severe skin burns and eye damage. (H314)  
Very toxic to aquatic life. (H400)

#### Safety statement(s)

##### General

-

##### Prevention

Do not breathe vapour/mist. (P260)  
Wear eye protection/protective gloves/protective clothing. (P280)  
Avoid release to the environment. (P273)

##### Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing. (P305+P351+P338)

##### Storage

-

##### Disposal

Dispose of contents/container in accordance with local regulation. (P501)

#### Hazardous substances

Alcohols, C12-14, ethoxylated, sulfates, sodium salts  
sodium hypochlorite, solution ... % Cl active

#### Additional labelling

Active substance(s):  
sodium hypochlorite, solution ... % Cl active (4.37 g/100g)

### 2.3. Other hazards

#### Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.  
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS No.: 68891-38-3 EC No.: 500-234-8 UK-REACH: Index No.:	1-5%	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	[19]

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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

sodium hypochlorite, solution	CAS No.: 7681-52-9	4.37%	EUH031
... % Cl active	EC No.: 231-668-3		Met. Corr. 1, H290
	UK-REACH:		Skin Corr. 1B, H314
	Index No.: 017-011-00-1		Eye Dam. 1, H318
			Aquatic Acute 1, H400 (M=10)
			Aquatic Chronic 2, H411

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and

nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Some metal oxides

Oxygen, hypochlorous acid, chlorine.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

#### Recommended storage material

Keep only in original packaging.

#### Storage temperature

5 - 30°C

Dry, cool and well ventilated

#### Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

Strong acids

Strong oxidizing agents

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Sodium hydroxide

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

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## Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	79 µg/cm <sup>2</sup>
Long term – Local effects - Workers	Dermal	132 µg/cm <sup>2</sup>
Long term – Systemic effects - General population	Dermal	1650 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2750 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	52 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	175 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	15 mg/kg bw/day

## Sodium hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>

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

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1.55 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	1.55 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	1.55 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.55 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	3.1 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	3.1 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	3.1 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	3.1 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	260 µg/kgbw/day

## PNEC

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		240 µg/L
Freshwater sediment		916.8 µg/kg
Intermittent release (freshwater)		71 µg/L
Marine water		24 µg/L
Marine water sediment		91.7 µg/kg
Sewage treatment plant		10 g/L
Soil		7.5 mg/kg

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

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		210 ng/L
Intermittent release (freshwater)		260 ng/L
Marine water		42 ng/L
Predators		11.1 mg/kg
Sewage treatment plant		4.69 mg/L

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

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There are no exposure scenarios implemented for this product.

## Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

## Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

## Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

## Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

## 8.3. Individual protection measures, such as personal protective equipment

### Generally

Wash contaminated clothing before reuse.

Use only UKCA marked protective equipment.

### Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.			

### Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-



### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Gloves		> 360	EN374



### Eye protection

Type	Standards
Safety glasses	EN166



## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Yellowish

#### Odour / Odour threshold

Chlorine

#### pH

>11.5

#### Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to the nature of the product.

#### Relative density

1.07

#### Kinematic viscosity

400 (20 °C)

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

##### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

##### Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

##### Vapour pressure

Testing not relevant or not possible due to the nature of the product.

##### Relative vapour density

Testing not relevant or not possible due to the nature of the product.

##### Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

#### Data on fire and explosion hazards

##### Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

##### Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

##### Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

##### Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

#### Solubility

##### Solubility in water

Soluble

##### n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

##### Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

#### 9.2. Other information

##### Other physical and chemical parameters

No data available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Contact with acids liberates toxic gas.

Reacts violently with alkali metals, metal powders, oxidizing materials and amines.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

#### 10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 20 °C/68 °F.

#### 10.5. Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

Strong acids

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

Oxygen, hypochlorous acid, chlorine.

### SECTION 11: Toxicological information

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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/irritation

Causes serious eye damage.

### 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

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

### Endocrine disrupting properties

Not applicable.

### Other information

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Endocrine disrupting properties

Not applicable.

### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: Disposal considerations

### Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

**EWC code**

Not applicable.


**Specific labelling**

Not applicable.

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: Transport information**

	<b>14.1 UN / ID</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Hazard class(es) Labels: 8 Classification code:</b>	<b>14.4 PG*</b>	<b>14.5 Env**</b>	<b>Other information:</b>
ADR	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution ... % Cl active)	Class: 8 Labels: 8 Classification code: C9 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution ... % Cl active)	Class: 8 Labels: 8 Classification code: C9 	III	Yes	Limited quantities: 5 L EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution ... % Cl active)	Class: 8 Labels: 8 Classification code: C9 	III	Yes	See below for additional information.

\* Packing group

\*\* Environmental hazards

**Additional information**

Although this product is environmentally hazardous, the environmentally hazardous substance mark has been omitted as the product is supplied in packaging with a maximum quantity of 5 L / 5 kg.

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

**14.6. Special precautions for user**

Not applicable.

**14.7. Maritime transport in bulk according to IMO instruments**

No data available.

**SECTION 15: Regulatory information**

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

### Demands for specific education

No specific requirements.

### SEVESO - Categories / dangerous substances

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

### Biocidal Products Regulations

Product type: PT2 - Disinfectants and algacides not intended for direct application to humans or animals

### Restrictions on use

-

### Directions for use and dose rate

-

### Additional information

-

### Additional information

Not applicable.

### Sources

The Management of Health and Safety at Work Regulations 1999.

Control of Major Accident Hazards (COMAH) Regulations 2015.

In accordance with Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

## 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H314, Contact with acids liberates toxic gas.

H290, May be corrosive to metals.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H400, Very toxic to aquatic life.

H411, Toxic to aquatic life with long lasting effects.

H412, Harmful to aquatic life with long lasting effects.

### The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PC35 = Washing and Cleaning Products (including solvent based products)

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.  
The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.  
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by  
Regulatory Chemist

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.  
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.  
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.  
Country-language: GB-en