



SAFETY DATA SHEET (1907/2006/EC)
3001142 – TBEC Economy THK Bleach citrus GMB058-02
Version : n° 2 (23/07/2014)
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Date : 04/09/14

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SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : Best-in CITRUS THICK BLEACH 750ML
Product code : 56013552
Finished Goods Code: 40039304

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

Use descriptor system (REACH) : Bleach

1.3. Details of the supplier of the safety data sheet

Registered company name : McBride Plc Middleton.
Address : Middleton Way, Middleton.M24 4DP.Manchester.UK.
Telephone : + 44 (0) 161 653 9037. Fax : .
MSDS@mcbride.co.uk
www.detergentinfo.com

1.4. Emergency telephone number : + 44 (0) 161 653 9037.

Association/Organisation : .

Other emergency numbers

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Substance that is corrosive to metals, Category 1 (Met. Corr. 1, H290).
Skin corrosion, Category 1A (Skin Corr. 1A, H314).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Corrosive (C, R 35).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Detergent mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS09

Signal Word :

DANGER

Product identifiers :

EC 231-668-3 SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE
011-002-00-6 SODIUM HYDROXIDE

Additional labeling :

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

Hazard statements :

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.



H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Precautionary statements - Prevention :

P234 Keep only in original container.

P273 Avoid release to the environment.

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

Precautionary statements - Response :

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

Precautionary statements - Storage :

P405 Store locked up.

Precautionary statements - Disposal :

P501 Dispose of contents/container in accordance with local requirements on waste disposal.

2.3. Other hazards

The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	67/548/EEC	Note	%
INDEX: 017_011_00_1 CAS: 7681-52-9 EC: 231-668-3 REACH: 01-2119488154-34-xxxxSODIUM HYPOCHLORITE, SOLUTION CL ACTIVE	GHS05, GHS09DgrMet. Corr. 1, H290Skin Corr. 1B, H314Aquatic Acute 1, H400M Acute = 10Aquatic Chronic 1, H410M Chronic = 1EUH:031	C,NC;R34Xi;R37N;R50R31	B	2.5 <= x % < 10
INDEX: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH: 01-2119457892-27-SODIUM HYDROXIDE	GHS05DgrSkin Corr. 1A, H314	CC;R35	[1]	0 <= x % < 2.5
INDEX: 1001240 CAS: 61788-90-7 EC: 263-016-9AMINES, COCO ALKYLDIMETHYL, N-OXIDES	GHS07, GHS05, GHS09DgrAcute Tox. 4, H302Skin Irrit. 2, H315Eye Dam. 1, H318Aquatic Acute 1, H400M Acute = 1	Xn,NXn;R22Xi;R38-R41N;R50		0 <= x % < 2.5
INDEX: I88_41_5 CAS: 88-41-5 EC: 201-828-72-TERT-BUTYLCYCLOHEXYL ACETATE	GHS09Aquatic Chronic 2, H411	NN;R51/53		0 <= x % < 2.5
INDEX: I77_92_9 CAS: 77-92-9 EC: 201-069-1 REACH: 01-2119457026-42-CITRIC ACID	GHS07WngEye Irrit. 2, H319	XiXi;R36		0 <= x % < 2.5
INDEX: I586_62_9 CAS: 586-62-9 EC: 209-578-0TERPINOLENE	GHS08, GHS02, GHS09DgrAsp. Tox. 1, H304Flam. Liq. 3, H226Aquatic Chronic 2, H411	Xn,NXn;R65N;R51/53R10		0 <= x % < 2.5
INDEX: I99_87_6 CAS: 99-87-6	GHS08, GHS02, GHS09DgrAsp. Tox. 1, H304Flam. Liq. 3, H226Aquatic Chronic 2, H411	Xn,NXn;R65N;R51/53R10		0 <= x % < 2.5



EC: 202-796-7PARA-CYMENE				
INDEX: I104_67_6 CAS: 104-67-6 EC: 203-225-4GAMMA-UNDECALACTONE		NN;R51/53		0 <= x % < 2.5
INDEX: I22629_49_8 CAS: 22629-49-8 EC: 245-142-6TRIDECENE-2-NITRILE	GHS09WngAquatic Acute 1, H400M Acute = 10Aquatic Chronic 1, H410M Chronic = 10	NN;R50/53		0 <= x % < 2.5

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

Other data :

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

Specific and immediate treatment :

Information for the doctor :

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

Unsuitable methods of extinction

In the event of a fire, do not use :

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

- chlorine (Cl₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES



6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Remove contaminated clothing and protective equipment before entering eating areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry place.

Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging :

Suitable packaging materials :

Unsuitable packaging materials :

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
	1310-73-2	-	-	2 mg/m3	-	-



- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :	
	1310-73-2	-	2	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
	1310-73-2	-	2 mg/m3	-	-	-

Biological limits :

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

Predicted no effect concentration (PNEC):

8.2. Exposure controls

Suitable technical inspections

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex

- PVC (polyvinyl chloride)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

Suitable type of protective boots :

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Type of FFP mask :

Category :

Type of mask with combined filters :

Type of powered air-purifying respirator :

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Particle filter according to standard EN143 :

Independent breathing apparatus for respiratory protection :

- Thermal risks



Exposure controls linked to environmental protection

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Fluid liquid.

Important health, safety and environmental information

pH :	Not stated.
	Strongly basic.
Boiling point/boiling range :	Not specified.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1
	Method for determining the density :
Water solubility :	Soluble.
	Method for determining the water solubility :
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

Mixture which by chemical action can corrode and even destroy metals.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- frost

10.5. Incompatible materials

Keep away from :

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

- chlorine (Cl₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

11.1.1. Substances

Acute toxicity :

PARA-CYMENE (CAS: 99-87-6)

Oral route : LD50 = 4750 mg/kg

TERPINOLENE (CAS: 586-62-9)

Oral route : LD50 = 3850 mg/kg

2-TERT-BUTYLCYCLOHEXYL ACETATE (CAS: 88-41-5)

Oral route : LD50 = 4600 mg/kg



Skin corrosion/skin irritation :
Serious damage to eyes/eye irritation :
Respiratory or skin sensitisation :
Germ cell mutagenicity :
Carcinogenicity :
Reproductive toxicant :
Specific target organ systemic toxicity - single exposure :
Specific target organ systemic toxicity - repeated exposure :
Aspiration hazard :

11.1.2. Mixture

Acute toxicity :

Skin corrosion/skin irritation :

Corrosive classification is based on an extreme pH value.

Serious damage to eyes/eye irritation :

Corrosive classification is based on an extreme pH value.

Respiratory or skin sensitisation :

Germ cell mutagenicity :

Carcinogenicity :

Reproductive toxicant :

Specific target organ systemic toxicity - single exposure :

Specific target organ systemic toxicity - repeated exposure :

Aspiration hazard :

Symptoms related to the physical, chemical and toxicological characteristics

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Interactive effects

Absence of specific data

Mixture versus substance information

Other information

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Fish toxicity : 0.01 < LC50 <= 0.1 mg/l

Factor M = 10

Duration of exposure : 96 h

0,01 < NOEC <= 0,1 mg/l

Duration of exposure : 28 days

Crustacean toxicity : 0.01 < EC50 <= 0.1 mg/l

Factor M = 10

Species : Ceriodaphnia sp.

Duration of exposure : 48 h

0,001 < NOEC <= 0,01 mg/l

Factor M = 1

Duration of exposure : 7 days

Algae toxicity : 0.01 < ECr50 <= 0.1 mg/l



Factor M = 10
Duration of exposure : 72 h
0,001 < NOEC <= 0,01 mg/l
Factor M = 1
Duration of exposure : 7 days

12.1.2. Mixtures

Crustacean toxicity : No observed effect.
1 < EC50 <= 10 mg/l
Species : Daphnia magna
Duration of exposure : 24 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2. Persistence and degradability

12.2.1. Substances

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)
Biodegradability : Fast degrading.

12.2.2. Mixtures

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.3.1. Substances

12.3.2. Mixtures

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Local arrangements :

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

1791

14.2. UN proper shipping name

UN1791=HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)

- Classification :

8



14.4. Packing group

III

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C9	III	8	80	5 L	521	E1	3	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	8	-	III	5 L	F-A,S-B	223	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	8	-	III	852	5 L	856	60 L	A3 A803	E1	
	8	-	III	Y841	1 L	-	-	A3 A803	E1	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 618/2012
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

- Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

- Particular provisions :

No data available.

- Labelling for detergents (EC Regulation No. 648/2004,907/2006) :

Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

CAS Substance Group Formula Category ODP

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

- Swiss ordinance on the incentive tax on volatile organic compounds :

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :

Corrosive

Contains :

011-002-00-6 SODIUM HYDROXIDE

Risk phrase :

R 35 Causes severe burns.

Warning ! Do not use together with other products. May release dangerous gases (chlorine).



Safety phrase :

- S 1/2 Keep locked up and out of the reach of children.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 25 Avoid contact with eyes.
- S 27 Take off immediately all contaminated clothing.
- S 28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
- S 64 If swallowed, rinse mouth with water (only if the person is conscious).
- S 20 When using do not eat or drink.

Title for H, EUH and R indications mentioned in section 3 :

- H226 Flammable liquid and vapour.
- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- 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.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.
- R 10 Flammable.
- R 22 Harmful if swallowed.
- R 31 Contact with acids liberates toxic gas.
- R 34 Causes burns.
- R 35 Causes severe burns.
- R 36 Irritating to eyes.
- R 37 Irritating to respiratory system.
- R 38 Irritating to skin.
- R 41 Risk of serious damage to eyes.
- R 50 Very toxic to aquatic organisms.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 65 Harmful: may cause lung damage if swallowed.

Abbreviations :

- ADR : European agreement concerning the international carriage of dangerous goods by Road.
- IMDG : International Maritime Dangerous Goods.
- IATA : International Air Transport Association.
- ICAO : International Civil Aviation Organisation
- RID : Regulations concerning the International carriage of Dangerous goods by rail.
- WGK : Wassergefährdungsklasse (Water Hazard Class).
- GHS05 : Corrosion
- GHS09 : Environment