

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 14-6-2017 Revision date: 14-6-2017 Supersedes: 22-5-2017 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Product name : Bio Clean Hygiene Spray Liquid

Product code :

Type of product : Detergent Product group : Cleaning product

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use

Industrial/Professional use spec : Wide dispersive use

Use of the substance/mixture : The information given in this MSDS concerns the product and is given on the assumption

mentioned in section 1.1, that the product will be used in the manner and for the purposes

indicated by the manufacturer.

Use of the substance/mixture : Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners,

carpet cleaners, metal cleaners, air fresheners)

Function or use category : Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Zettex Europe B.V.

Plaza 20

4782 SK Moerdijk - Nederland

T +31 (0)888-938839 - F +31 (0)888-938888

info@zettex.nl - www.zettex.nl

1.4. Emergency telephone number

Emergency number : +31 (0)888-938839

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	5 - 10	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Get medical advice/attention if you feel unwell.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Butoxyethanol (111-76-2)			
EU Local name 2-Butoxyethanol			
EU	IOELV TWA (mg/m³)	98 mg/m³	

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2-Butoxyethanol (11	1-76-2)					
EU	U IOELV TWA (ppm)			20 ppm		
EU	IOELV STEL (m	IOELV STEL (mg/m³)		246 mg/m³		
EU	IOELV STEL (pp	IOELV STEL (ppm)		50 ppm		
EU	Notes		Ski	Skin		
Germany	TRGS 910 Acce	ptable concentration note	es			
United Kingdom	Local name		2-B	2-Butoxyethanol		
United Kingdom	WEL TWA (mg/r	n³)	123	123 mg/m³		
United Kingdom	WEL TWA (ppm)	25	25 ppm		
United Kingdom	WEL STEL (mg/	m³)	246	246 mg/m³		
United Kingdom	WEL STEL (ppm	1)	50	50 ppm		
United Kingdom	Remark (WEL)		sub der (Bid	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)		
2-Butoxyethanol (11	1-76-2)					
DNEL/DMEL (Workers))					
Acute - systemic effects	, dermal	≈ 125 mg/kg bodyweigh	nt/day			
Acute - systemic effects	, inhalation	≈ 1091 mg/m³				
Acute - local effects, inh	alation	≈ 246 mg/m³				
Long-term - systemic eff	fects, dermal	≈ 125 mg/kg bodyweight/day				
Long-term - systemic eff	fects, inhalation	≈ 98 mg/m³				
DNEL/DMEL (General	population)					
Acute - systemic effects, dermal		≈ 89 mg/kg bodyweight				
Acute - systemic effects, inhalation		≈ 426				
Acute - systemic effects, oral		≈ 26,7 mg/kg bodyweig	ht			
Acute - local effects, inhalation		≈ 147 mg/m³				
Long-term - systemic effects,oral		≈ 6,3 mg/kg bodyweigh	t/day			
Long-term - systemic effects, inhalation		≈ 59 mg/m³				
Long-term - systemic effects, dermal		≈ 75 mg/kg bodyweight	/day			
PNEC (Water)						
PNEC aqua (freshwater)	8,8 mg/l				
PNEC aqua (marine wa	ter)	0,88 mg/l				
PNEC aqua (intermitten	t, freshwater)	9,1 mg/l				
PNEC (Sediment)						
PNEC sediment (freshw	rater)	34,6 mg/kg dwt				
PNEC sediment (marine	e water)	3,46 mg/kg dwt				
PNEC (Soil)						
PNEC soil	PNEC soil 2,33 mg/kg dwt					
8.2. Exposure controls						
Hand protection:						
Protective gloves	Protective gloves					
Туре	Material	Permeation Thickness (mm) Penetration Standard			Standard	
Disposable gloves Nitrile rubber (NBR) 2 (> 30 minutes)			2 (< 1.5)	EN ISO 374		
Disposable gloves	TAILLIE LUDDEL (NDK)	2 (> 50 minutes)		Z (< 1.J)	LN 130 3/4	

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Eye protection:			
Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

Personal protective equipment symbol(s):





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : clear.
Colour : Blue.

Odour : characteristic.
Odour threshold : No data available

pH : 8

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : $100 \, ^{\circ}\text{C}$ Flash point : $> 100 \, ^{\circ}\text{C}$

Auto-ignition temperature : No data available : No data available Decomposition temperature : No data available Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1,005 g/cm3 Solubility : completely soluble. Log Pow : No data available Viscosity, kinematic $: < 19,9 \text{ mm}^2/\text{s}$ Viscosity, dynamic : < 20 mPa·s : No data available Explosive properties Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Stable under normal conditions.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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2-Butoxyethanol (111-76-2)	
LD50 oral	1746 mg/kg bodyweight
LD50 dermal	435 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	2200 mg/l
Skin corrosion/irritation	: Not classified
	pH: 8
Serious eye damage/irritation	: Not classified
	pH: 8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Bio Clean Disinfect Liquid	
Viscosity, kinematic	< 19,9 mm²/s

SECTION 12: Ecological information

12.1. Toxicity	
A sector is succeeded to the desident to a	

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

2-Butoxyethanol (111-76-2)		
LC50 fish 1	1474 mg/l	
EC50 other aquatic organisms 1	1550 mg/l waterflea	
EC50 other aquatic organisms 2	911 mg/l	

12.2. Persistence and degradability

Bio Clean Disinfect Liquid

Persistence and degradability	The surfactant(s) contained in this preparation 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

12.3. Bioaccumulative potential

2-Butoxyethanol (111-76-2)

Log Pow	0.81
Logiow	0,01

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers

can be dumped after cleaning according to local legislation. If recycling is not possible,

eliminate in accordance with local valid waste disposal regulations. Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID		
14.1. UN number	14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shippin	g name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available						

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Detergent Regulation : Labelling of contents:		
Component	%	
Benzisothiazolinone		
Methylisothiazolinone		

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

	SECTION 16: Other information				
Indication of changes:					
	Section	Changed item	Change	Comments	
	1.4	Emergency number	Added		

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Abbreviations and acronyr	ns:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment plant	
TLM	Median Tolerance Limit	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
Data sources	: 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.	
Other information	DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond ou control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be	

Full text of H- and EUH-statements:				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			

applicable.

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EUH210	Safety data sheet available on request.
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SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product