Safety Data Sheet

according to Regulation (EU) No. 2015/830 Date of issue:

Revision date: 03/07/2015

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Supersedes: 06/10/2010
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Version: 5.0

SECTION 1: Identifica	tion of the substance	/mixture and of th	e company/undertaki	ng
1.1. Product identifier				
Product form	: Article			
Product name		T STICK		
1.2. Relevant identifie	d uses of the substance or	mixture and uses adv	ised against	
1.2.1. Relevant identifie				
Use of the substance/mixture	e : Lighti	ng and markings		
1.2.2. Uses advised aga	inst			
No additional information ava	ailable			
1.3. Details of the sup	plier of the safety data shee	et		
Cyalume Technologies SAS				
295 rue Mayor de Montricher 13591 Aix en Provence Cede				
T +33 4 42 37 17 83 - F +33				
<u>nrizzo@cyalume.com</u> - <u>www.</u>	<u>.cyalume.eu</u>			
1.4. Emergency teleph	none number			
Country	Organisation/Company		Address	Emergency number
UNITED KINGDOM	National Poisons Informati (Birmingham Centre)	ion Service	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to
	City Hospital			18.00 hours)
SECTION 2: Hazards i	dentification			
2.1. Classification of t	he substance or mixture			
Classification according to	Regulation (EC) No. 1272/2	2008 [CLP]		
Not classified				
Adverse physicochemical, Sticks are hermetically closer recommendations. Presents regulations are complied with	d articles which do not preser no particular risk to the enviro	nt any particular risk, as onment, provided the di		ding to the manufacturer's ction 13) and national or local
2.2. Label elements				
Labelling according to Reg	ulation (EC) No. 1272/2008	[CLP]		
This product is an article acc			cation and labeling.	
2.3. Other hazards				
Other hazards not contributin	g to the : None	, to our knowledge.		
classification	•	, j		
SECTION 3: Composi	tion/information on in	aredients		
3.1. Substance		grouionto		
Not applicable				
3.2. Mixture Description:	· Diacti	ic article containing on a	valate solution in a class or	poule immersed in an activator
		e anicie containing an (naiale solution in a glass aff	poure inimerseu in an activator
N		Des des (i des (iffer		
Name		Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butyl benzoate		(CAS No) 136-60-7	60 - 80	Acute Tox. 4 (Oral), H302
		(EC no) 205-252-7		Eye Irrit. 2, H319 Skin Irrit. 2, H315
hydrogen peroxide solution %	6	(CAS No) 7722-84-1	< 5	Ox. Liq. 1, H271
		(EC no) 231-765-0 (EC index no) 008-003-00	.9	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
hydrogen peroxide solution %	(CAS No) 7722-84-1 (EC no) 231-765-0 (EC index no) 008-003-00-9	(5 =< C < 8) Eye Irrit. 2, H319 (8 =< C < 50) Eye Dam. 1, H318 (C >= 35) STOT SE 3, H335 (35 =< C < 50) Skin Irrit. 2, H315 (50 =< C < 70) Skin Corr. 1B, H314 (50 =< C < 70) Ox. Liq. 2, H272 (C >= 70) Skin Corr. 1A, H314 (C >= 70) Ox. Liq. 1, H271

Full text of H-statements: see section 16

SECTIO	N 4: First aid measures		
	Description of first aid measures		
First-aid mo	easures general	:	Sticks are hermetically closed articles which do not present any particular risk, as long as they are used according to the manufacturer's recommendations.
First-aid me	easures after inhalation	:	Not specifically applicable.
First-aid m	easures after skin contact	:	In the event of contact with the liquid: Wash with soapy water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid m	easures after eye contact	:	In the event of contact with the liquid: Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid m	easures after ingestion	:	Not specifically applicable.
4.2. N	Most important symptoms and effect	ts,	both acute and delayed
Symptoms	/injuries	:	Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. I	ndication of any immediate medical	at	tention and special treatment needed
No immedi	ate medical care or specific treatment i	ide	entified.
SECTIO	N 5: Firefighting measures		
5.1. E	Extinguishing media		
Suitable ex	tinguishing media	:	Carbon dioxide (CO2). Dry powder. Foam. Water spray.
5.2. 8	Special hazards arising from the sub	st	ance or mixture
Hazardous fire	decomposition products in case of	:	If exposed to hight temperatures, which may result of a wrong utilisation or of the environment, leaks of liquid may occur potentially releasing decomposition products of the liquid contained in the article.
5.3. A	Advice for firefighters		
Firefighting	instructions	:	Contain the extinguishing fluids by bunding. Use water spray or fog for cooling exposed containers.
Protection	during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTIO	N 6: Accidental release meas	u	res
6.1. F	Personal precautions, protective equ	ıip	ment and emergency procedures
6.1.1. F	For non-emergency personnel		
Emergency	/ procedures	:	In case of liquid leak : Avoid contact with skin and eyes.
	For emergency responders		
Protective	equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. E	Environmental precautions		
Do not allo	w product to spread into the environme	ent	. Prevent entry to sewers and public waters.
6.3. N	Methods and material for containment	nt	and cleaning up
For contain	nment		Recover mechanically the product.
	or cleaning up	:	Wash contaminated area with large amounts of water.
Other infor	mation	:	Dispose of materials or solid residues at an authorized site.
6.4. F	Reference to other sections		
For further	information refer to section 13.		
SECTIO	N 7: Handling and storage		
7.1. F	Precautions for safe handling		
Precaution	s for safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Comply with instructions for use (refer to technical sheet).

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Hygien	e measures	ot eat, drink or smoke during work. Wash hands and other expo vater before eating, drinking or smoking and when leaving work	
7.2.	Conditions for safe storage, includ	compatibilities	
Storage	econditions	in dry, cool, well-ventilated area. Keep away from heat. Keep aon.	way from sources of
Incomp	atible products	g oxidizing agents. Reducing agent. Acids. Bases.	
Special	rules on packaging	in original container.	

Specific end use(s) 7.3. No additional information available

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

Control parameters 8.1.

hydrogen peroxide solution % (7722-84-1)		
United Kingdom	Local name	Hydrogen peroxide
United Kingdom	WEL TWA (mg/m ³)	1,4 mg/m³
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m³)	2,8 mg/m ³
United Kingdom	WEL STEL (ppm)	2 ppm

8.2. Exposure controls	
Hand protection	: Not required for normal conditions of use
Eye protection	: Not required for normal conditions of use
Skin and body protection	: Not required for normal conditions of use
Respiratory protection	: Not required for normal conditions of use

9.1. Information on basic physical and chemical properties Physical state : Solid Colour : Variable. Odour : odourless. Odour threshold : Not applicable : Not applicable pН Relative evaporation rate (butyl acetate=1) : Not applicable Melting point : No data available Freezing point : Not applicable : Not applicable Boiling point Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available : The product is not flammable Flammability (solid, gas) Vapour pressure : Not applicable Relative vapour density at 20 °C : Not applicable Relative density : No data available : Water: Insoluble Solubility Log Pow : Not applicable : Not applicable Viscosity, kinematic Viscosity, dynamic : Not applicable Explosive properties : Not explosive. Oxidising properties : Non oxidizing material according to EC criteria. Explosive limits : Not applicable

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

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10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
None to	o our knowledge.
10.4.	Conditions to avoid
Heat. S	parks. Open flame. Ignition sources.
10.5.	Incompatible materials
Reduci	ng agents. Strong oxidizing agents. Acids. Bases.
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	: Not classified (Based on available data, the classification criteria are not met)	
hydrogen peroxide solution % (7722-84-1)		
LD50 oral rat	444,5 mg/kg (100%)	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (Vapours - mg/l/4h)	> 0,17 mg/l/4h (maximum attainable concentration)	
butyl benzoate (136-60-7)		
LD50 oral rat	735 mg/kg (Rat)	
LD50 dermal rabbit	4000 mg/kg (Rabbit)	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)	
	pH: Not applicable	
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)	
	pH: Not applicable	
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)	
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)	
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)	
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)	
Aspiration hazard	: Not classified (Not applicable)	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

hydrogen peroxide solution % (7722-84-1)	
LC50 fish	16,4 mg/l/96h (Pimephales promelas)
EC50 Daphnia	2,4 mg/l/48h (Daphnia magna)
ErC50 (algae)	1,38 mg/l/72h (Skeletonema costatum)

12.2. Persistence and degradability

hydrogen peroxide solution % (7722-84-1)	
Persistence and degradability	Readily biodegradable.
butyl benzoate (136-60-7)	
Persistence and degradability	Biodegradability in water: no data available.
12.3. Bioaccumulative potential	
LIGHT STICK	
Log Pow	Not applicable
hydrogen peroxide solution % (7722-84-1)	
Log Pow	-1,57 (20 °C)
Bioaccumulative potential	Not potentially bioaccumulable.

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butyl benzoate (136-60-7)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	ment
No additional information available	
40.0 Other advance offects	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of in accordance with relevant local regulations.
Additional information	: Empty the packaging completely prior to disposal. Recycle or dispose of in compliance with current legislation.
SECTION 14: Transport informatic	on in the second se
In accordance with ADR / RID / IMDG / IATA	/ ADN
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
	Net ee Peeble
Transport hazard class(es) (IATA)	: Not applicable
ADN	· Natappliachta
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
Special transport precautions	: No additional information available
	nnex II of MARPOL 73/78 and the IBC Code
Not applicable	

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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 substance on the REACH candidate list

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:

This sheet was updated (refer to the date at the top of this page). This sheet has been revised completely (changes were not marked).

Data sources: SDS of suppliers. ECHA - European Chemical Agency.Other information: This product is an article according to REACH regulation, not subjected to classification and

Inis product is an article according to REACH regulation, not subjected to classification and labeling. This SDS was carried out deliberately in order to provide our customers with relevant information security.

Full text of H- and EUH-statements:

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
Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H271	May cause fire or explosion; strong oxidiser
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

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