

LIGHT STICK

Product Safety Information Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

Issue date: 24/02/2022 Revision date: 24/02/2022 Supersedes version of: 02/07/2015 Version: 6.0

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

1.1. Product identifier

Product form : Article
 Product name : LIGHT STICK
 Type of product : Plastic article containing an oxalate solution in a glass ampoule immersed in an activator

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Lighting and markings

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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 13591 Aix en Provence Cedex 3 - FRANCE
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nrizzo@cyalume.com - www.cyalume.eu

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Not subject

Comments

Sticks are hermetically closed articles which do not present any particular risk, as long as they are used according to the manufacturer's recommendations. Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Not classified as flammable by EC criteria.

2.2. Label elements

Labelling

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : None, to our knowledge.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification
butyl benzoate	(CAS-No.) 136-60-7 (EC-No.) 205-252-7	15 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Bis(2,4,5-trichloro-6-carbopentoxyphenyl) oxalate	(CAS-No.) 30431-54-0 (EC-No.) 250-195-3	4 - 8	Skin Sens. 1B, H317

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Hydrogen peroxide substance with national workplace exposure limit(s) (IE)	(CAS-No.) 7722-84-1 (EC-No.) 231-765-0 (EC Index-No.) 008-003-00-9	1 - 1.5	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 (ATE=693 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Sodium salicylate	(CAS-No.) 54-21-7 (EC-No.) 200-198-0	< 1,5	Acute Tox. 4 (Oral), H302 (ATE=1000 mg/kg bodyweight) Eye Irrit. 2, H319 Repr. 2, H361d

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Hydrogen peroxide	(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 (35 ≤C < 100) 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 (63 ≤C < 100) Aquatic Chronic 3, H412 (70 ≤C < 100) Skin Corr. 1A, H314 (70 ≤C < 100) Ox. Liq. 1, H271

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures 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 measures 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 measures 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 measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get immediate medical advice/attention.

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

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No immediate medical care or specific treatment identified.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO2). Dry powder. Foam. Water spray.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : If exposed to high 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. Carbon oxides (CO, CO2). Hydrochloric acid.

5.3. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : In case of liquid leak : Avoid contact with skin and eyes.

6.1.2. 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. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

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6.3. Methods and material for containment and cleaning up

For containment : Mechanically recover the product.
Methods for cleaning up : Absorb with : inert absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. Comply with instructions for use (refer to technical sheet).
Hygiene measures : Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Keep away from heat. Keep away from sources of ignition.
Incompatible products : Strong oxidizing agents. Reducing agent. Acids. Bases.
Special rules on packaging : Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrogen peroxide (7722-84-1)

Ireland - Occupational Exposure Limits

Local name	Hydrogen peroxide
OEL TWA [1]	1.5 mg/m ³
OEL TWA [2]	1 ppm
OEL STEL	3 mg/m ³
OEL STEL [ppm]	2 ppm
Regulatory reference	Chemical Agents Code of Practice 2021

8.2. Exposure controls

Hand protection:

In case of liquid leak : Wear suitable gloves tested to EN374. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

In case of liquid leak : Safety glasses. (EN 166)

Skin and body protection:

In case of liquid leak : Wear suitable working clothes

Respiratory protection:

In case of liquid leak : In case of inadequate ventilation wear respiratory protection. Gas mask with filter type ABEK (EN 14387)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Plastic article containing an oxalate solution in a glass ampoule immersed in an activator.
Colour : Variable.
Odour : Odourless.
Odour threshold : Not applicable.
pH : Not applicable
Relative evaporation rate (butylacetate=1) : Not applicable.
Melting point : No data available

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Freezing point	: Not applicable.
Boiling point	: Not applicable.
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability	: The product is not flammable
Vapour pressure	: Not applicable.
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
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.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Extremely high or low temperatures. Heat. Sparks. Open flame. Ignition sources.

10.5. Incompatible materials

Reducing 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 (oral)	: Not applicable.
Acute toxicity (dermal)	: Not applicable.
Acute toxicity (inhalation)	: Not applicable.
Additional information	: Sticks are hermetically closed articles which do not present any particular risk, as long as they are used according to the manufacturer's recommendations

Sodium salicylate (54-21-7)

LD50 oral rat	1000 mg/kg (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

Hydrogen peroxide (7722-84-1)

LD50 oral rat	693 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg (equivalent or similar to OECD Guideline 402)
LC50 Inhalation - Rat (Vapours)	> 0.14 mg/l/4h (equivalent or similar to OECD Guideline 403) (At the technically highest possible concentration no mortality in animal test)

Skin corrosion/irritation	: Not applicable. pH: Not applicable
Serious eye damage/irritation	: Not applicable. pH: Not applicable

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Respiratory or skin sensitisation	: Not applicable.
Germ cell mutagenicity	: Not applicable.
Carcinogenicity	: Not applicable.
Reproductive toxicity	: Not applicable.
STOT-single exposure	: Not applicable.
STOT-repeated exposure	: Not applicable.
Aspiration hazard	: Not applicable.

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Viscosity, kinematic	Not applicable
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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.
Hazardous to the aquatic environment, short-term (acute)	: Not applicable.
Hazardous to the aquatic environment, long-term (chronic)	: Not applicable.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
butyl benzoate (136-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Hydrogen peroxide (7722-84-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Sodium salicylate (54-21-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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 information

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

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

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14.6. Special precautions for user

Special transport precautions : No additional information available

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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 substance on the REACH candidate list

15.1.2. National regulations

No additional information available

SECTION 16: Other information

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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).

Abbreviations and acronyms:

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
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources : SDS of suppliers. ECHA - European Chemicals Agency.

Other information : This product is an article according to REACH regulation, not subjected to classification and labeling.

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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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.