

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

1.1. Product identifier

Product name: LuminoKrom® Water-based photoluminescent paint Outdoors

Security data sheet available for following references:

- LuminoKrom® Water-based photoluminescent paint Outdoors Almond green
- LuminoKrom® Water-based photoluminescent paint Outdoors White
- LuminoKrom® Water-based photoluminescent paint Outdoors Yellow
- LuminoKrom® Water-based photoluminescent paint Outdoors Blue
- LuminoKrom® Water-based photoluminescent paint Outdoors Green

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

Paint, coating or auxiliary product.

1.3. Details if the supplier of the safety data sheet

Registered company name: OLIKROM SAS

Address: 2 Avenue de Canteranne, 33600 Pessac, France

Phone: +33(0)6 17 98 36 20

Email: contact@olikrom.com

1.4. Emergency phone number

Country	Organisation	Adress	Emergency phone number
FRANCE	OLIKROM	http://www.olikrom.com	+33(0)6 17 98 36 20
FRANCE	ORFILA	http://www.centres-antipoison.net	+33(0)1 45 42 59 59

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Incompliance with EC regulation No.1272/2008 and its amendments

Not classified as a hazardous substance or mixture.

2.2. Label elements

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

Not classified as a hazardous substance or mixture.

Hazards statements

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Precautionary statements

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easily removable. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

2.3. Other dangers

This substance/mixture does not contain any ingredients considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or more.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

3.2. Mixtures

Composition:

Identification	(CE) 1272/2008	Nota	%
CAS: 64-17-5 INDEX: 603-002-00-5 REACH: 01-2119457610-43-XXXX ETHANOL	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	[1]	x% ≤ 2,5

CAS: 2634-33-2 CE: 220-120-9 INDEX: 613-088-00-6 REACH: 01-2120761540-60 1,2-BENZISOTHAZOL-3(2H)-ONE	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	-	x% ≤ 0,05
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Informations on ingredients:

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

SECTION 4 : FIRST AID MEASURES
4.1. Description of 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.

Move the victim out of the danger zone. Show the safety data sheet to a doctor. Do not leave the victim unattended.

In the event of splashes or contact with eyes:

Wash thoroughly with clean water for 15 minutes, holding the eyelids open. Remove contact lenses if worn and if they can be easily removed. Continue rinsing. Protect the intact eye.

If pain, redness or visual discomfort appears, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash skin thoroughly with soap and water.

Beware of the product that may remain between the skin and clothing, watch, shoes, ...

In case of allergic manifestation, consult a doctor.

In the event of exposure by inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Place the unconscious person in a safe lateral position and ensure that breathing can be carried out normally. Maintain an open air path. Loosen tight clothing such as a collar, tie, or belt. When breathing is difficult, trained personnel can assist the affected person by administering oxygen. If breathing stops, give artificial respiration. See a doctor.

If symptoms persist, seek medical attention.

In the event of swallowing:

Rinse mouth thoroughly with water (only if person is conscious).

Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

If the symptoms persist, consult a doctor..

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

Symptomatic treatment.

SECTION 5 : FIREFIGHTING MEASURES
5.1. Extinguishing media
Suitable methods of extinction

In the event of a fire, use an extinguishing agent suitable for the surrounding fire:

- Sprayed water or water mist
- Dry chemical
- Carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use:

- Water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire, the following may form: carbon oxides (CO, CO2), silicon dioxide, nitrogen oxides (NOx), halogen compounds, metal oxides, hydrogen chloride.

5.3. Advice for firefighters

Do not breathe combustion gases in the event of explosion or fire. Wear self-contained breathing apparatus for fire fighting if necessary.

Standard procedure for chemical fires. Use extinguishing media appropriate to local conditions and the surrounding environment. Do not discharge fire-fighting water in public pipes, water drain or sewers. Use a water jet to cool fire exposed containers and to protect persons.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Refer to the protective measures listed in the sections 7 et 8.

Use personal protective equipment.

6.2. Precautions for environmental protection

Do not discharge into drains or sewers. Do not discharge into the ground/subsoil.

In the event of pollution of watercourses, lakes or sewers, inform the competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. sand, Kieselguhr, universal binder). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal protective equipment: See section 8 for more details.

Waste treatment: See section 13 for more details.

SECTION 7 : HANDLING AND STORAGE

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

7.1. Precautions for safe handling

Wash your hands after every use.

Remove and wash contaminated clothing before reuse.

Fire prevention

Usual preventive measures for fire protection.

Equipments and recommended procedures

For personal protection, see section 8.

Observe the precautions indicated on the label as well as the labor protection regulations.

General industrial hygiene practices.

Equipments and prohibited procedures

It is forbidden to smoke, eat and drink in the premises where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Electrical installations and equipment must comply with technical safety standards.

No decomposition if stored and used in accordance with instructions.

Packaging

Keep in packaging made of the same material as the original.

7.3. Specific end use

No data available.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Product name	CAS	Value type	Value	Update	Base
Ethanol	64-17-5	VLCT / VLE	9500 mg/m3 5000 ppm	-	INRS (FR)
		VLEP / VME	1900 mg/m3 1000 ppm		
Further information:	Indicative				

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use clean and properly maintained personal protective equipment. Store personal protective equipment in a clean place away from the work area.

- Eye / face protection

Safety goggles with side protection to DIN/EN standards: DIN EN 166.

- Hand protection

Use appropriate protective gloves.

Recommended type of gloves:

- Nitrile (NBR) gloves
- breaking time: 240 min
- glove thickness: 0.11 mm

- Body protection

Waterproof protective clothing.

- Respiratory protection

No personal respiratory protective equipment is normally required.

If vapours/aerosols are released: - for brief exposure, filtering equipment, combined filter A-P2.

Hygiene measures

Wash hands after use. Handle in accordance with good industrial hygiene practices and safety instructions

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on basic physical and chemical properties
General information

Physical state:	Liquid
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Important health, safety and environmental information

pH :	No data available
Boiling point / boiling range:	No data available
Flash point interval:	> 100 °C (ISO 3679)
Vapour pressure (50°C):	No data available
Density :	No data available
Water solubility :	No data available
Melting point / melting range:	No data available
Self-ignition temperature:	No data available
Decomposition point / decomposition range:	No data available

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY
10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Stable under recommended storage conditions. No particular hazards to report.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong bases, strong oxidants.

10.6. Hazardous decomposition products

No decomposition if stored and used in accordance with instructions. In the event of fire, the following may be released: - carbon monoxide, carbon dioxide, silicon dioxide, nitrogen oxides (NOx), halogenated compounds, metal oxides, hydrogen chloride.

SECTION 11 : TOXICOLOGICAL INFORMATIONS
11.1. Information on toxicological effects
11.1.1. Components
Ethanol

Acute toxicity – Inhalation	LC50 < 8000 mg/l (rat, exposition=4 h)
Acute toxicity - Dermal	LD50 < 20000 mg/kg (rabbit)
Acute toxicity - Oral	LD50 > 6200 mg/kg (rat)
Serious eye damage / irritation	Causes serious eye irritation

1,2-benzisothiazol-3(2H)-one

Acute toxicity - Dermal

LD50 > 2000 mg/kg (rat)

Acute toxicity - Oral

LD50 = 490 mg/kg (rat)

11.1.2. Mixture

No data available for the mixture.

11.2. Substance (s) described in a toxicological sheet from INRS (National Institute for Research and Safety)

No data available.

SECTION 12 : ECOLOGICAL INFORMATION
12.1. Toxicity
Mixture

No data available for the mixture.

Components
Ethanol

Toxicity to fish

LC50 = 11000 mg/l (exposition=96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 = 9950 mg/l (Daphnia magna, exposition=48 h)

LC50 = 9280 mg/l (Daphnia magna, exposition=48 h)

1,2-benzisothiazol-3(2H)-one

Toxicity to fish

LC50 = 2,18 mg/l (Oncorhynchus mykiss, exposition=96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 = 2,94 mg/l (Daphnia magna, exposition=48 h)

Toxicity to algae

EC50r = 0,11 mg/l (Pseudokirchneriella subcapitata, exposition=72 h)

NOEC = 0,027 mg/l (Skelettonema costatum, exposition=72 h)

12.2. Persistence and degradability
Mixture

Biodegradability

No data available.

Components
1,2-benzisothiazol-3(2H)-one

Biodegradability

Easily biodegradable

12.3. Bioaccumulative potential
Mixture

Bioaccumulation

No data available.

Components
Ethanol

Bioaccumulation

Log Pow = -0,31 (20 °C)

1,2-benzisothiazol-3(2H)-one

Bioaccumulation

Log Pow = 0,7 (20 °C)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Bioaccumulation

Log Pow = -0,71 - 0,75 (OECD test guideline 107)

12.4. Mobility in soil

No data available for the mixture.

12.5. Results of PBT and vPvB assessment

No data available for the mixture.

12.6. Other adverse effects

No data available for the mixture.

SECTION 13 : DISPOSAL CONSIDERATIONS

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

13.1. Waste treatment methods

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Residual waste

Do not dispose of with household waste. Do not release into the environment.

Dispose of in accordance with European Directives on waste and hazardous waste. Dispose of the product in accordance with local regulations.

Soiled packaging

Packaging that has not been properly emptied must be disposed of as used.

Empty containers must be taken to an approved waste treatment site for recycling or disposal.

Disposal methods / information / special precautions

SECTION 14 : TRANSPORT INFORMATION

ADR/RID

14.1. UN number

Not regulated as a dangerous good

14.2. UN proper shipping name

Not regulated as a dangerous good

14.3. Transport hazard class(es)

Not regulated as a dangerous good

14.4. Packaging group

Not regulated as a dangerous good

14.5. Environmental hazards

Not regulated as a dangerous good

IMDG

14.1. UN number

Not regulated as a dangerous good

14.2. UN proper shipping name

Not regulated as a dangerous good

14.3. Transport hazard class(es)

Not regulated as a dangerous good

14.4. Packaging group

Not regulated as a dangerous good

14.5. Environmental hazards

Not regulated as a dangerous good

IATA

14.1. UN number

Not regulated as a dangerous good

14.2. UN proper shipping name

Not regulated as a dangerous good

14.3. Transport hazard class(es)

Not regulated as a dangerous good

14.4. Packaging group

Not regulated as a dangerous good

14.5. Environmental hazards

Not regulated as a dangerous good

Information for all modes of transport

14.6. Special precautions to be taken by the user

No data available.

14.7. Bulk transport in accordance with Annex II of the Marpol Convention and the IBC Code

Not regulated as a dangerous good

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:

- EU Regulation n° 1272/2008 amended by UE Regulation n°2017/776 (ATP 10)

Packaging information

No data available.

Particular provisions

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

As the working conditions of the user are not known to us, the information given in this safety data sheet is based on the state of our knowledge, at the date of dispatch, relating to the information provided by our suppliers on the substances. entering into the composition and on both national and community regulations.

The mixture should not be used for other purposes than those specified in section 1 without first obtaining written handling instructions.

It is always the user's responsibility to take all necessary measures to meet the requirements of local laws and regulations.

The information given in this safety data sheet should be considered as a description of the safety requirements relating to this mixture and not as a guarantee of its properties.

Full text of H-Statements mentioned in section 3:

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long-lasting effects

Abbreviations:

ADR	Accord for Dangerous goods by Road
bw	body weight
bw/day	body weight per day
DNEL	Derived No Effect Level
EC x	Effect Concentration associated with x% response
IARC	International Agency for Research of Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	50% Lethal Concentration
LD50	50% Lethal Dose
LL	Lethal Loading
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
RID	Regulations concerning the International carriage of Dangerous goods by rail
SVHC	Substance of Very High Concern
TWA	Time Weight Average
VLCT	Valeur Limite Court Terme = Short Term Limit Value
VME	Valeur limite Moyenne d'Exposition = Average Exposure Limit Value
vPvB	Very persistent and very bioaccumulative
WGK	Wassergefährdungsklasse (Water Hazard Class)