

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.06.2020

Version number 03-00

Revision: 22.06.2020

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

1.1 Product identifier

Trade name: LUCITE® Algisan

Safety data sheet number: 07-071906172001

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

No further relevant information available.

Application of the substance / the mixture Biocide

Uses advised against

This product is not suitable for uses other than those specified in the "Use of the substance/mixture". If your particular manner of use is not listed, please contact the creator of this safety data sheet.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

CD-Color GmbH & Co. KG

Wetterstraße 58

D-58313 Herdecke

GERMANY

Telephone: +49 (0)2330/926-0 (Central office)

Further information obtainable from:

Product safety department

Phone: +49 (0)2330 926-184 (Mrs. Gartz)

E-mail: msds@cd-color.de

1.4 Emergency telephone number:

24-h emergency number

Giftinformationszentrum-Nord

+49 (0)551 - 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07 GHS09

Signal word Warning

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Hazard-determining components of labelling:

2-octyl-2H-isothiazol-3-one

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P391 Collect spillage.

2.3 Other hazards
Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 111-46-6 EINECS: 203-872-2	2,2'-oxybisethanol STOT RE 2, H373; Acute Tox. 4, H302	5-<10%
CAS: 68424-85-1 EINECS: 270-325-2	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302	1-<3%
CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Sens. 1A, H317	0.1-<1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:

In all cases of doubt, or when symptoms persist, seek medical advice.

Soiled, soaked clothes immediately take off.

Never give anything by mouth to an unconscious person.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

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After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Remove contact lenses. Keep eye lids open and rinse plentifully for at least 10 minutes with clean running water. Subsequently consult an ophthalmologist.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing:

Rinse mouth thoroughly with water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

After eye contact: May cause irritations.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

Extinguishing powder, foam, carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture**Fire will produce dangerous decomposition products like dense, black smoke, carbon dioxide (CO₂), carbon monoxide (CO) and nitrogen oxides (NO_x). Inhalation may cause serious health damage.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Keep contaminated washing water and dispose of appropriately.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes as well as inhalation of vapours.

Prevent formation of aerosols. In case of spraying: Wear respiratory protection (see section 8.2). Also applies to mixtures which contain this product.

Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Make sure spills can be contained, e.g. in sump pallets.

Protect from frost, heat and direct sunlight. Keep tightly closed, cool and dry.

Information about storage in one common storage facility:

Note the rules for common storage in accordance with TRGS 510 - "Storage of hazardous substances in transportable containers".

Store away from foodstuffs.

Further information about storage conditions: None.

Storage class: 12

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

Ensure a good ventilation. This can be achieved by local exhaustion or general exhaust air.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

111-46-6 2,2'-oxybisethanol

AGW (Germany)	Long-term value: 44 mg/m ³ , 10 ppm 4(II);DFG, Y, 11
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Regulatory information AGW (Germany): TRGS 900

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls Provide good ventilation and/or an exhaust system in the work area.

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

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Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Use combination filter type A(-P2) according to EN 141.

Protection of hands:

Work with gloves. Gloves must be inspected for damage before use. Defective or damaged gloves must not be used. Gloves must satisfy the specifications of EC directive 89/686/EEG and standard EN 374. It is recommended to use long gloves to minimize contact by splashing.

Material of gloves

Nitrile rubber

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed safety goggles are to be worn during all work, in accordance with EN 166.

Have eye wash bottle or eye rinse ready at work place.

Professional Cooperative Rules - BGR 192 Use of eye and face protection

Body protection: Impervious protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Yellowish
Odour:	Mild
Odour threshold:	For mixtures not applicable.
pH-value at 20 °C:	4.0-4.5

Change in condition

Melting point/Freezing point:	Not security-related.
Initial boiling point and boiling range:	~100 °C (H ₂ O)
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	Not applicable.
Decomposition temperature:	For mixtures not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.

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Explosion limits:

Lower: Not determined.

Upper: Not determined.

Oxidising properties

In its condition as supplied, the product is neither flammable nor oxidising.

Vapour pressure at 20 °C:

23 hPa (H₂O)

Relative density at 20 °C

1.005 (OECD 109)

Vapour density

Not applicable.

Evaporation rate

For mixtures not applicable.

Solubility in / Miscibility with

water: Miscible / waterdilutable.

polar solvents: Partly miscible.

non-polar solvents: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: For mixtures not applicable.

Viscosity: Not security-related.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions are known.

No further relevant information available.

10.2 Chemical stability Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

No dangerous reactions are known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products:

In case of fire arise: smoke and carbon oxides. Under certain fire conditions tracks of other toxic products can not be excluded.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

The product is not tested as one of the above but rather is classified according to the conventional method (calculation procedure set out in the EU Regulation (EC) No 1272/2008) and according to the toxicological risks. See chapters 2 and 3 for detail.

LD/LC50 values relevant for classification:

The quoted data are literature values and/or manufacturer/supplier data.

111-46-6 2,2'-oxybisethanol

Oral	LD ₅₀	12,600 mg/kg (rat)
Dermal	LD ₅₀	11,900 mg/kg (rabbit)

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral	LD ₅₀	500 mg/kg (ATE)
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26530-20-1 2-octyl-2H-isothiazol-3-one

Oral	LD ₅₀	550 mg/kg (rat)
Dermal	LD ₅₀	690 mg/kg (rat)
Inhalative	LC ₅₀ / 4 h	3 mg/l (ATE)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation
68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Sensitisation	OECD 406 (MKA)	(guinea pig)
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26530-20-1 2-octyl-2H-isothiazol-3-one

Sensitisation	EC ₃ (local lymph node assay)	0.46 (mouse) (OECD 429) sensitising
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May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as carcinogenic, mutagenic or toxic to reproduction (CMR properties).

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard

The mixture contains no or only small amounts of materials which are classified as an aspiration hazard. It can therefore be assumed that the mixture is not an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

111-46-6 2,2'-oxybisethanol

LC ₅₀ / 96 h	75,200 mg/l (Pimephales promelas (fathead minnow))
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26530-20-1 2-octyl-2H-isothiazol-3-one

EC ₅₀ / 48 h	0.42 mg/l (Daphnia magna (big water flea)) (OECD 202)
EC ₅₀ / 72 h	0.084 mg/l (Scenedesmus subspicatus) (OECD 201)
LC ₅₀ / 96 h	0.036 mg/l (Oncorhynchus mykiss (rainbow trout)) (OECD 203)
NOEC / 21 d	0.002 mg/l (daphnia) (OECD 211)
NOEC / 28 d	0.022 mg/l (Oncorhynchus mykiss (rainbow trout)) (OECD 210)
NOEC / 72 h	0.004 mg/l (algae) (OECD 201)

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12.2 Persistence and degradability

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

OECD 301D Closed Bottle Test	>70 % (activated sludge organisms)
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26530-20-1 2-octyl-2H-isothiazol-3-one

OECD 309 Simulation Biodegradation - Surface Water	0.6-1.4 d (half-life) rapidly biodegradable
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12.3 Bioaccumulative potential

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

OECD 107 Log Kow (shake flask method)	2.88 (n-octanol/water)
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26530-20-1 2-octyl-2H-isothiazol-3-one

OECD 117 Log Kow (HPLC method)	2.92 (n-octanol/water)
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12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Behaviour in sewage processing plants:

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

OECD 303A Activated Sludge Units	>90 % (activated sludge organisms) (HPLC) rapid biodegradable
EC ₂₀ / 0,5 h	5 mg/l (activated sludge organisms) (OECD 209)

26530-20-1 2-octyl-2H-isothiazol-3-one

OECD 303A Activated Sludge Units	>83 % (activated sludge organisms)
EC ₂₀ / 0,5 h	10.4 mg/l (activated sludge organisms) (TTC-Test (8901 Macherey-Nagel))
EC ₂₀ / 3 h	7.3 mg/l (activated sludge organisms) (OECD 209)

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

This product does not contain relevant substances that have been assessed as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB).

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Special waste. Do not empty residuals into drain or WC; send to collection for problem waste. Do not dispose of with household waste.

European waste catalogue

08 01 12	waste paint and varnish other than those mentioned in 08 01 11
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HP 14	Ecotoxic
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Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Not contaminated packages may be recycled.

Do not dispose of with household waste. Do not empty into drains.

Hand over receptacles/packagings with remainders/leftovers to hazardous waste disposers or collection site for hazardous waste.

SECTION 14: Transport information

UN-Number

ADR, IMDG, IATA

UN3082

14.2 UN proper shipping name

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, 2-octyl-2H-isothiazol-3-one)

IMDG

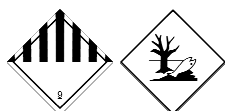
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, 2-octyl-2H-isothiazol-3-one), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, 2-octyl-2H-isothiazol-3-one)

14.3 Transport hazard class(es)

ADR



Class

9 (M6) Miscellaneous dangerous substances and articles.

Label

9

IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

9

Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Product contains environmentally hazardous substances: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

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Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Hazard identification number (Kemler code):	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Single packagings and combination packagings containing inner packagings with a capacity not exceeding 5 liters (liquids) or 5 kg (solids), need not be marked with the symbol "fish and tree".
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES, 2-OCTYL-2H-ISOTHIAZOL-3-ONE), 9, III, (E)

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Information about limitation of use:

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

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Labelling according to Regulation (EC) No 2004/42 Not applicable.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The given conditions of work of the user extract themselves from our knowledge and control. The product/the preparation may be used without written permission for no other use, than the mentioned intended purpose. The user is responsible for the observance of all necessary legal instructions.

This Safety Data Sheet replaces all previous versions. With the newest version in each case, the preceding Safety Data Sheets are set out of strength.

For further information please consult the "Technical Data Sheet".
Misuse may cause damage to health and environment.

Labelling according to Regulation (EC) No 528/2012

Active substance content in 100 g of product:

2,76 g quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
0,27 g 2-octyl-2H-isothiazol-3-one

Authorisation number: N-43680

Relevant phrases

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure:
Oral.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation
Serious eye damage/eye irritation
Skin sensitisation
Hazardous to the aquatic environment - short-term (acute) aquatic hazard
Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity - oral – Category 4

Acute Tox. 3: Acute toxicity - dermal – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Sources

- Regulation 1907/2006/EC (REACH-Regulation)

- Regulation 1272/2008/EC (CLP-Regulation)

* **Data compared to the previous version altered.** Replaces version 02-01

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