

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 30.04.2026

Version number 03-00 (replaces version 02-06)

Revision: 30.04.2026

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

1.1 Product identifier

Trade name: **LUCITE® Xtra Protect 2in1 Aqua**

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

For industrial or professional use only.

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:

Dörken Coatings GmbH & Co. KG

Wetterstr. 58

58313 Herdecke

Germany

www.doerkencoatings.de

Phone: +49 2330 63 243

Fax: +49 2330 63 100 243

Further information obtainable from: msds.coatings@doerken.de

1.4 Emergency telephone number:

Emergency CONTACT (24-Hour-Number):

GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful 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 Void

Signal word Void

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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

Additional information:

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

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2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties

55406-53-6 | 3-Iodo-2-propynylbutylcarbamate

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| | | |
|---|---|--------------------|
| CAS: 55406-53-6 EINECS: 259-627-5 | 3-Iodo-2-propynylbutylcarbamate Acute Tox. 3, H331; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Sens. 1, H317 | <1% |
| CAS: 52-51-7 EINECS: 200-143-0 Reg.nr.: 01-2119980938-15-xxxx | 2-bromo-2-nitropropane-1,3-diol Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335 | <0.036% |
| CAS: 2634-33-5 EINECS: 220-120-9 Reg.nr.: 01-2120761540-60-xxxx | 1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD ₅₀ oral: 450 mg/kg LC ₅₀ / 4 h inhalative: 0.21 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 % | ≥ 0.025 - < 0.036% |
| CAS: 55965-84-9 Reg.nr.: 01-2120764691-48-xxxx | mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 % | <0.0015% |

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

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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.

After skin contact:

Wash with plenty of soap and water.

In case of skin reactions consult a physician. Do not scratch.

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 out mouth and then drink plenty of water.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed Allergic reactions**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.

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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).
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 prolonged, intensive skin contact and contact with the eyes.
Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

| | |
|---------------|--|
| MAK (Germany) | Long-term value: 0.2E mg/m ³ vgl.Abschn.Xc |
|---------------|--|

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.

Appropriate engineering controls

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

Individual protection measures, such as 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

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

Use skin protection cream for skin protection.

Respiratory protection:

Breathing protection is always required when spraying.

Use combination filter A2(-P2) according to EN 14387.

Hand protection

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/EWG and standard EN 374.

Material of gloves

Nitrile rubber

Recommended thickness of the material: 0,2 mm

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

> 480 minutes

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

Eye/face protection

Wear protective goggles to protect against splashing.

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

Body protection: Impervious protective clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

| | |
|--|-----------------------------------|
| Physical state | Liquid |
| Colour: | Different according to colouring |
| Odour: | Mild |
| Odour threshold: | Not applicable for mixtures. |
| Melting point/Freezing point: | Not security-related. |
| Boiling point or initial boiling point and boiling range | 100 °C (7732-18-5 water) |
| Flammability | Not applicable. |
| Lower and upper explosion limit | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | Not applicable. |
| Auto-ignition temperature: | Not applicable. |
| Decomposition temperature: | For mixtures not applicable. |
| pH at 20 °C | ~8.2 |
| Viscosity: | Not security-related. |
| Solubility | |
| water: | Miscible / waterdilutable. |
| polar solvents: | Partly miscible. |
| non-polar solvents: | Not miscible or difficult to mix. |
| Partition coefficient n-octanol/water (log value) | For mixtures not applicable. |
| Vapour pressure at 20 °C: | 23 hPa (7732-18-5 water) |
| Density and/or relative density | |
| Density at 20 °C: | 1.02-1.17 g/cm ³ |
| Vapour density | Not applicable. |

9.2 Other information

| | |
|---|---|
| Appearance: | |
| Form: | Fluid |
| Important information on protection of health and environment, and on safety. | |
| Ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product does not present an explosion hazard. |
| Change in condition | |
| Softening point/range | |
| Oxidising properties | In its condition as supplied, the product is neither flammable nor oxidising. |
| Evaporation rate | For mixtures not applicable. |

Information with regard to physical hazard

| | |
|-----------------|------|
| classes | |
| Explosives | Void |
| Flammable gases | Void |

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| | |
|--|------|
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |

SECTION 10: Stability and reactivity

10.1 Reactivity 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.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:

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

55406-53-6 3-Iodo-2-propynylbutylcarbamate

| | | |
|------------|------------------------|---------------------|
| Oral | LD ₅₀ | 300-500 mg/kg (rat) |
| Dermal | LD ₅₀ | >2,000 mg/kg (rat) |
| Inhalative | LC ₅₀ / 4 h | 0.5 mg/l (ATE) |

Specific symptoms in biological assay:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

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Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

11.2 Information on other hazards

Endocrine disrupting properties

55406-53-6 | 3-Iodo-2-propynylbutylcarbamate

List II

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

55406-53-6 3-Iodo-2-propynylbutylcarbamate

| | |
|-----------------------------------|--|
| EC ₅₀ / 48 h | 0.47 mg/l (daphnia) (OECD 202) |
| EC ₅₀ / 72 h | 0.049 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| LC ₅₀ / 96 h (dynamic) | 0.145 mg/l (Oncorhynchus mykiss (rainbow trout)) |
| NOEC / 21 d | 10 mg/l (daphnia) (OECD 211) |
| NOEC / 28 d | 0.014 mg/l (Pimephales promelas (fathead minnow)) (OECD 210) |

12.2 Persistence and degradability

55406-53-6 3-Iodo-2-propynylbutylcarbamate

| | |
|--|-----------------------------------|
| OECD 307 Aerobic And Anaerobic Transformation Soil | 0.03-0.04 d (soil microorganisms) |
| OECD 308 Simulation Biodegradation Aqu Sed System | 1-1.2 d (degradation half-life) |

12.3 Bioaccumulative potential

55406-53-6 3-Iodo-2-propynylbutylcarbamate

| | |
|-------------------------------|----------------------------------|
| Partition Coefficient log Pow | 2.8 (n-octanol/water) (OECD 117) |
|-------------------------------|----------------------------------|

12.4 Mobility in soil No further relevant information available.

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.

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UN "Model Regulation":

Void

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.**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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 2 (Self-assessment): hazardous for water.**Labelling according to Regulation (EC) No 2004/42**

VOC limit 2010 for category h (WB): 30 g/l. This product contains max 30 g/l VOCs.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**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.

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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:** 0.95 g 3-iodo-2-propynyl butylcarbamate (IPBC)**Authorisation number:** see lid.**Authorisation holder:** Kurt Obermeier GmbH • Berghäuser Str. 70 • 57319 Bad Berleburg • Germany**Additional information:**

Restricted to professional users.

Do not use on wood which may come in direct contact with food and feeding stuff.

Wording of H and EUH phrases (number and full text)

- H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H310 Fatal in contact with skin.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH071 Corrosive to the respiratory tract.

Classification according to Regulation (EC) No 1272/2008

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.

Date of previous version: 19.02.2025**Version number of previous version:** 02-06**Abbreviations and acronyms:**

- ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 2: Acute toxicity – Category 2
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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Sources

- Regulation 1907/2006/EC (REACH-Regulation)
- Regulation 1272/2008/EC (CLP-Regulation)

* **Data compared to the previous version altered.**

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