

Safety data sheet

according to GB/T 16483-2008, GB/T 17519-2013

Printing date 08.03.2023

Version number 04-00

Revision: 08.03.2023

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

Product identifier

Trade name: **LUCITE® 160 MetallicColor**

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

No further relevant information available.

Application of the substance / the mixture Coating agent

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.

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**Emergency telephone number:** +86 532 8388 9090

2 Hazards identification

Classification of the substance or mixture



health hazard

Carc. 2 H351 Suspected of causing cancer.



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

Acute Tox. 5 H333 May be harmful if inhaled.

Skin Corr. 3 H316 Causes mild skin irritation.

Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

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Hazard pictograms

GHS07 GHS08

Signal word Warning**Hazard-determining components of labelling:**

2-Butoxyethanol

Titanium dioxide

2-methyl-2H-isothiazol-3-one

Hazard statements

May be harmful if inhaled.

Causes mild skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Precautionary statements**Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

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

Response

IF ON SKIN: Wash with plenty of water.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

Storage

Store locked up.

Disposal

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

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

111-76-2	2-Butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Flam. Liq. 4, H227	<2.5%
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112-34-5	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2, H319	<2.5%
2682-20-4	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.0015-<0.025%
55965-84-9	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 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 %	≥0.00025-<0.0015%

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

4 First aid measures**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.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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

Take off immediately all contaminated clothing and wash it before reuse.

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed Allergic reactions

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

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5 Firefighting measures

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**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.

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.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

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.

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.

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.

7 Handling and storage

Handling:**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

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Information about fire - and explosion protection: No special measures required.**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: Store away from foodstuffs.**Further information about storage conditions:** None.**Storage class:** 12**Specific end use(s)** No further relevant information available.**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.

Control parameters**Ingredients with limit values that require monitoring at the workplace:****111-76-2 2-Butoxyethanol**OEL (China) | Long-term value: 97 mg/m³PEL (Taiwan) | Long-term value: 121 mg/m³, 25 ppm**Regulatory information**

OEL (China): 工作场所所有害因素职业接触限值

PEL (Taiwan): 勞工作業場所容許暴露標準

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

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

Use skin protection cream for skin protection.

Respiratory protection:

Use always breathing protection with splashing medium.

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/EWG and standard EN 374.

It is recommended to use long gloves to minimize contact by splashing.

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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:

Wear protective goggles to protect against splashing.

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

Body protection: Impervious protective clothing**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

Form: Fluid
Colour: Silver-coloured

Odour: Weak after glycol ethers**Odour threshold:** For mixtures not applicable.**pH-value at 20 °C:** 8-9**Change in condition****Melting point/Freezing point:** Not security-related.**Initial boiling point and boiling range:** 100 °C (H₂O)**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.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.

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Oxidising properties	In its condition as supplied, the product is neither flammable nor oxidising.
Vapour pressure at 20 °C:	23 hPa (H ₂ O)
Density at 20 °C:	1.28 g/cm ³
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.
Other information	No further relevant information available.

10 Stability and reactivity**Reactivity**

No dangerous reactions are known.
No further relevant information available.

Chemical stability Product is stable under normal storage conditions.

Possibility of hazardous reactions

No dangerous reactions known.
No dangerous reactions are known.

Conditions to avoid No further relevant information available.

Incompatible materials: strong oxidizing agents

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.

11 Toxicological information**Information on toxicological effects****Acute toxicity****LD/LC50 values relevant for classification:**

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

Specific symptoms in biological assay:

Skin corrosion/irritation No irritant effect.

Serious eye damage/irritation No irritating effect.

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Respiratory or skin sensitisation No sensitising effects known.**Additional toxicological information:** Carcinogenic.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

Carc. 2

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.

12 Ecological information

Toxicity**Aquatic toxicity:** There are no statements/information available of the preparation.**Persistence and degradability** No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**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.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

14 Transport information

UN-Number

ADR, ADN, IMDG, IATA

Void

UN proper shipping name

ADR, ADN, IMDG, IATA

Void

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Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms

GHS07 GHS08

Signal word Warning**Hazard-determining components of labelling:**

2-Butoxyethanol

Titanium dioxide

2-methyl-2H-isothiazol-3-one

Hazard statements

May be harmful if inhaled.

Causes mild skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Precautionary statements**Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

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

Response

IF ON SKIN: Wash with plenty of water.

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IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

Storage

Store locked up.

Disposal

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

Directive 2012/18/EU**Named dangerous substances - ANNEX I** 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.

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

Contact:**Abbreviations and acronyms:**

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 5: Acute toxicity – Category 5

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

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

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

Skin Corr. 3: Skin corrosion/irritation – Category 3

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

Carc. 2: Carcinogenicity – Category 2

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

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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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