## according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) 2020/878

Article No.: 234 BLENDA-SUR Oel-Lasur AQ
Print date: 26.12.2022 Revision date: 10.12.2022

 Print date:
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 Revision date: 10.12.2022
 EN

 Version:
 9.0
 Issue date: 10.12.2022
 Page 1/9

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

1.1. Product identifier

Article No. (manufacturer/supplier) 234

Trade name/designation BLENDA-SUR Oel-Lasur AQ

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

Relevant identified uses

Coating material to protecting surfaces

#### 1.3. Details of the supplier of the safety data sheet

#### supplier (manufacturer/importer/downstream user/distributor)

Knuchel Farben AG

Farben + Lacke Telephone: +41 (0) 32 636 50 40 Steinackerweg 11 Telefax: +41 (0) 32 636 50 45

CH-4537 Wiedlisbach

#### Department responsible for information:

laboratory Manager

E-mail (competent person) info@knuchel.ch

1.4. Emergency telephone number

Emergency telephone number 145 (+41 (0)44 251 51 51)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2 Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

#### Hazard statements

not applicable

**Precautionary statements** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

#### Hazard components for labelling

not applicable

## Supplemental hazard information

EUH208 Contains reaction mass of

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); MIT (2-methyl-(2H)-isothiazol-3-one). May produce an allergic

reaction.

EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

**Description** waterborne acrylic dispersion paint, containing the following hazardous substances:

## Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. REACH No.
CAS No. Designation weight-% Index No. classification: // Remark

# according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) 2020/878

Article No.: 234 BLENDA-SUR Oel-Lasur AQ

Print date: 26.12.2022 Revision date: 10.12.2022 EN Version: 9.0 Issue date: 10.12.2022 Page 2 / 9

203-905-0 01-2119475108-36 111-76-2 2-butoxyethanol

1 - 5

603-014-00-0 Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2

H319 / Skin Irrit. 2 H315

Acute toxicity estimate (ATE): ATE (oral): 1300 mg/kg bw / ATE (dermal):

2000 mg/kg bw

#### Additional information

Full text of H-phrases: see 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. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

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

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

First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

## Unsuitable extinguishing media

strong water jet

## 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

# according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) 2020/878

Article No.: 234 BLENDA-SUR Oel-Lasur AQ Print date: 26.12.2022 Revision date: 10.12.2022

 Print date:
 26.12.2022
 Revision date: 10.12.2022
 EN

 Version:
 9.0
 Issue date: 10.12.2022
 Page 3 / 9

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

## Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limit values:

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m3; 25 ppm WEL, STEL: 246 mg/m3; 50 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 240 mmol/mol creatinine

Remark: Butoxyacetic acid; urine; end of exposure or end of shift

## **Additional information**

TWA: Long-term occupational exposure limit value STEL: short-term occupational exposure limit value

Ceiling: peak limitation

## DNEL:

#### 2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 75 mg/kg bw/day

DNEL acute inhalative (local), Workers: 246 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 663 mg/m³

DNEL long-term inhalative (systemic), Workers: 98 mg/m³

DNEL long-term oral (repeated), Consumer: 3,2 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Consumer: 44,5 mg/kg

DNEL long-term dermal (systemic), Consumer: 38 mg/kg

DNEL acute inhalative (local), Consumer: 123 mg/m³

DNEL acute inhalative (systemic), Consumer: 426 mg/m³

DNEL long-term inhalative (systemic), Consumer: 49 mg/m<sup>3</sup>

DNEL short-term oral (systemic): 13,4 mg/kg bw/day

## PNEC:

#### 2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/L

PNEC aquatic, marine water: 0,88 mg/L

PNEC aquatic, intermittent release: 9,1 mg/L

PNEC sediment, freshwater: 34,6 mg/kg dw

# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878

Article No.: 234 BLENDA-SUR Oel-Lasur AQ Print date: 26.12.2022 Revision date: 10.12.2022

 Print date:
 26.12.2022
 Revision date: 10.12.2022
 EN

 Version:
 9.0
 Issue date: 10.12.2022
 Page 4 / 9

PNEC sediment, marine water: 3,46 mg/kg dw

PNEC, soil: 2,8 mg/kg dw

PNEC sewage treatment plant (STP): 463 mg/L

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

#### Personal protection equipment

#### Respiratory protection

Not applicable.

## Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,4 mm Breakthrough time: 30 min

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

Wear suitable protective clothing and gloves.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:

Colour:

Colour:

Characteristic

Odour threshold:

Melting point/freezing point:

Liquid
refer to label
refer to label
not applicable

Initial boiling point and boiling range: 100 °C

Source: PH|EN|501166|GEFBEZ@tr4000

Flammability not applicable

Lower and upper explosion limit:

Lower explosion limit: 0.8 Vol-%
Upper explosion limit: not applicable
Flash point: not applicable

Auto-ignition temperature: 240 °C

Source: 2-butoxyethanol

Decomposition temperature: not applicable pH at 20 °C: not applicable Cinematic viscosity (40°C): 335.83 mm²/s
Viscosity at 20 °C: 350 - 400 mPas

Solubility(ies):

Water solubility at 20 °C: partially soluble Partition coefficient: n-octanol/water: see section 12

Vapour pressure at 20 °C: 23 mbar

Source: PH|EN|501166|GEFBEZ@tr4000

Density and/or relative density:

Density at 20 °C: 1.04 g/cm³

Relative vapour density: not applicable

# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878

Article No.: 234 BLENDA-SUR Oel-Lasur AQ Print date: 26.12.2022 Revision date: 10.12.2022

 Print date:
 26.12.2022
 Revision date: 10.12.2022
 EN

 Version:
 9.0
 Issue date: 10.12.2022
 Page 5 / 9

particle characteristics: not applicable

9.2. Other information

Solid content: 29 weight-%

solvent content:

Organic solvents: 1 weight-% Water: 69 weight-%

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

#### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5. Incompatible materials

not applicable

## 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

2-butoxyethanol

oral, LD50, Rat: 1300 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg oral, LD50, Guinea pig: 1414 mg/kg

Method: OECD 401

inhalative (vapours), LC0, Guinea pig, female: > 3,1 mg/L

Method: (49 CFR 173.132)

inhalative (vapours), LC0, Guinea pig, male: > 3,4 mg/L

Method: (49 CFR 173.132)

dermal, LD50, Rabbit, male: 1,06 mg/kg

#### Skin corrosion/irritation; Serious eye damage/eye irritation

2-butoxyethanol

Skin, Rabbit (4 h)

Method: Directive 67/548/EEC, Annex V, B.4.

eyes, Rabbit (24 h) Method: OECD 405

## Respiratory or skin sensitisation

2-butoxyethanol

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406 Maximization test

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### 2-butoxyethanol

Germ cell mutagenicity; Evaluation In vitro tests showed no mutagenic effects.

Carcinogenicity; Evaluation Didn't show any carcinogenic effects in animal tests.

Reproductive toxicity; Evaluation Some effects on reproduction were observed in animals only at high doses where toxic effects on parents were induced.

## according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) 2020/878

BLENDA-SUR Oel-Lasur AQ Article No.: 234 26.12.2022

Print date: Revision date: 10.12.2022 Version: Issue date: 10.12.2022 Page 6 / 9

teratogenicity; Evaluation Didn't show any effect on fetus development in animal studies.

#### STOT-single exposure; 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.

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g., irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatique, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

No information available.

#### **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

## 12.1. Toxicity

#### 2-butoxvethanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1474 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia pulex (water flea): 1550 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (72 h)

Method: OECD 201

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 62,5 mg/L (72 h)

Method: OECD 201

Bacterial toxicity:, EC0, Pseudomonas putida: 700 mg/L (16 h)

Method: DIN 38412

Daphnia toxicity, EC50, Daphnia magna: 1,55 mg/L (48 h)

Method: OECD 202

Algae toxicity, EbC50, Desmodesmus subspicatus.: 623 mg/L (72 h)

Method: OECD 201

Daphnia toxicity, EC50, Daphnia magna: 297 mg/L (21 d)

Method: OECD 211

Daphnia toxicity, NOEC, Daphnia magna: 100 mg/L (21 d)

Method: OECD 211

Daphnia toxicity, growth test (Eb-Cx) 10%", Daphnia magna: 134 mg/L (21 d)

Method: OECD 211

Algae toxicity, growth test (Eb-Cx) 10%", Pseudokirchneriella subcapitata: 308 mg/L (72 h)

Method: OECD 201

Algae toxicity, Growth rate (ErCx) 10%, Pseudokirchneriella subcapitata: 679 mg/L (72 h)

Method: OECD 201 Long-term Ecotoxicity

Toxicological data are not available.

## 12.2. Persistence and degradability

## 2-butoxvethanol

Biodegradation: 90,4 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301B

aerobic; activated sludge; based on: CO2 formation (% of theoretical value).; The criterion for the 10 day time window is fulfilled.

#### 12.3. Bioaccumulative potential

# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878

Article No.: 234 BLENDA-SUR Oel-Lasur AQ

 Print date:
 26.12.2022
 Revision date: 10.12.2022
 EN

 Version:
 9.0
 Issue date: 10.12.2022
 Page 7 / 9

#### 2-butoxyethanol

Distribution coefficient n-octanol/water (log KOW): 0,81; Evaluation Bioaccumulation is not to be expected.

#### **Bioconcentration factor (BCF)**

Toxicological data are not available.

#### 12.4. Mobility in soil

## 2-butoxyethanol

Water: Evaluation The substance does not evaporate from the water surface into the atmosphere.

The product is water soluble.

soil: Evaluation Adsorption at ground level not to be expected.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

No information available.

#### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Appropriate disposal / Product

#### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080112 waste paint and varnish other than those mentioned in 08 01 11

#### Appropriate disposal / Package

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## **SECTION 14: Transport information**

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

No dangerous good in sense of this transport regulation.

## 14.1. UN number or ID number

not applicable

## 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

not applicable

## 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

#### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

## **Further information**

#### Land transport (ADR/RID)

Tunnel restriction code -

#### Sea transport (IMDG)

## according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) 2020/878

BLENDA-SUR Oel-Lasur AQ Article No.: 234 26.12.2022

Revision date: 10.12.2022 Print date: Page 8 / 9 Version: Issue date: 10.12.2022

EmS-No. not applicable

## 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

## **SECTION 15: Regulatory information**

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

## EU legislation

## Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 15

## **National regulations**

#### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

#### 15.2. Chemical Safety Assessment

#### For the following substances of this mixture a chemical safety assessment has been carried out:

EC No.	Designation	REACH No.
CAS No.		
203-905-0	2-butoxyethanol	01-2119475108-36
111-76-2		

## **SECTION 16: Other information**

#### Full text of classification in section 3

Acute 10x. 4 / H332	Acute toxicity (innalative)	Harmful if Innaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.

Abbreviations and acronyms

European Agreement concerning the International Carriage of Dangerous Goods by Road ADR

OEL Occupational Exposure Limit Value

Biological Limit Value **BLV** CAS Chemical Abstracts Service

Classification, Labelling and Packaging CLP Carcinogenic, Mutagenic and Reprotoxic **CMR** 

DIN German Institute for Standardization / German industrial standard

**DNEL** Derived No-Effect Level

**EAKV** European Waste Catalogue Directive

Effective Concentration EC EC **European Community** ΕN European Standard

International Air Transport Association – Dangerous Goods Regulations IATA-DGR

IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk ICAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous

Goods by Air

**IMDG** Code International Maritime Code for Dangerous Goods ISO International Organization for Standardization

LC Lethal Concentration

LD Lethal Dose

**MARPOL** Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

**OECD** Organisation for Economic Cooperation and Development

**PBT** persistent, bioaccumulative, toxic **PNEC** Predicted No Effect Concentration

**REACH** Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

UN **United Nations** 

Volatile Organic Compounds VOC

according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878

BLENDA-SUR Oel-Lasur AQ Revision date: 10.12.2022 Issue date: 10.12.2022 Article No.: Print date: 234 26.12.2022 9.0

EN Page 9 / 9 Version:

vPvB very persistent and very bioaccumulative

#### **Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.