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



Coating Systems

Article No.: ZZ84000ALB10 [Z] ZowoSmart® 5101
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on date: 05.11.2022 date: 05.11.2022 Page 1

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

1.1. Product identifier

Article No. (manufacturer/supplier) ZZ84000ALB10
Trade name/designation [Z] ZowoSmart® 5101

Cleaner

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

Relevant identified uses

Reserved for industrial and professional use.

.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Berger-Zobel GmbH

 Coating Systems
 Telephone: +49 6359 / 8005-0

 Maybachstraße 2
 Telefax: +49 6359 / 8005-170

67269 Grünstadt

Department responsible for information:

Laboratory

E-mail Sicherheitsdaten@berger-zobel.de

1.4. Emergency telephone number

24-hour emergency number: +49 700 24112112

(BLG)

24-hour emergency number in side USA: +1 872 5888271 or +11 49 700 24112112 (BLG)

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

not applicable

Hazard components for labelling

not applicable

Supplemental hazard information

EUH210 Safety data sheet available on request.

2.3. Other hazards

No information available.

Other information: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description

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

EC No. REACH No. CAS No. Designation

Index No. classification // Remark

weight-%

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



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200-661-7 01-2119457558-25-XXXX

7.5 - 1067-63-0 propan-2-ol

603-117-00-0 Flam. Lig. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336

Additional information

Full text of classification: see section 16

Labelling for contents according to regulation (EC) No. 648/2004

weight-% Ingredient

5 - 15 % aliphatic hydrocarbons

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 eve 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.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

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.

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

Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

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.

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

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



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Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. 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.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

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. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

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

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 25 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. 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:

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

WEL, TWA: 999 mg/m3; 400 ppm WEL, STEL: 1250 mg/m3; 500 ppm

Additional information

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

Ceiling: peak limitation

DNEL:

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0 DNEL long-term dermal (systemic), Workers: 888 mg/kg bw/day DNEL long-term inhalative (systemic), Workers: 500 mg/m³ DNEL long-term dermal (systemic), Consumer: 319 mg/kg bw/day DNEL long-term inhalative (systemic), Consumer: 89 mg/m³

DNEL long-term exposure oral (systemic effects), Consumer: 26 mg/kg bw/day

PNEC:

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

PNEC aquatic, freshwater: 140,9 mg/L PNEC aquatic, marine water: 140,9 mg/L PNEC sediment, freshwater: 552 mg/kg

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PNEC sediment, marine water: 552 mg/kg

PNEC, soil: 28 mg/kg

PNEC sewage treatment plant (STP): 2251 mg/L PNEC water, intermittent release: 140,9 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time: > 480 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 antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

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: Liquid Colour: red

Odour: characteristic
Odour threshold: not applicable
Melting point/freezing point: not applicable

Initial boiling point and boiling range: 82 °C

Source: propan-2-ol

Flammability: not applicable

Lower and upper explosion limit:

Auto-ignition temperature:

Lower explosion limit: 2 Vol-% Upper explosion limit: 13,4 Vol-%

Source: propan-2-ol

Flash point: not applicable

425 °C Source: propan-2-ol

Decomposition temperature: not applicable

pH at 20 °C: not applicable Cinematic viscosity (40°C): 7 mm²/s

Viscosity at 20 °C: 30 s 3 mm

Method: EN ISO 2431

Solubility(ies):

Water solubility at 20 °C: miscible

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Partition coefficient: n-octanol/water: see section 12

Vapour pressure at 20 °C: 44 mbar

Method: calculated. Source: propan-2-ol

Density and/or relative density:

Density at 20 °C: 0,97 g/cm³

Method: ISO 2811, part 3

Relative vapour density: not applicable particle characteristics: not applicable

9.2. Other information

Solid content: 0,02 weight-%

solvent content:

Organic solvents: 10 weight-% Water: 90 weight-%

Solvent separation test: < 3 weight-% (ADR/RID)

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

propan-2-ol

oral, LD50, Rat: 4570 mg/kg

dermal, LD50, Rabbit: 13400 mg/kg

inhalative (vapours), LC50, Rat: 30 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

propan-2-ol

eyes

Skin

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

propan-2-ol

Germ cell mutagenicity; Evaluation Non-mutagenic

STOT-single exposure; STOT-repeated exposure

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

Aspiration hazard

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



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propan-2-ol

Aspiration hazard: Evaluation While swallowing or vomiting, pulmonary aspiration may cause chemical pneumonitis, leading to death

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]

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1. Toxicity

propan-2-ol

Algae toxicity, EC50, Scenedesmus subspicatus: > 1000 mg/L (72 h)

Algae toxicity, EC50: > 100 mg/L Fish toxicity, EC50: > 100 mg/L Daphnia toxicity, EC50: > 100 mg/L

Long-term Ecotoxicity

propan-2-ol

Fish toxicity, LC50, Pimephales promelas: 9640 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 13299 mg/L (48 h) Algae toxicity, EC50, Desmodesmus subspicatus: > 1000 mg/L (96 h)

Fish toxicity, LC50, Pimephales promelas: 11130 mg/L (96 h)

12.2. Persistence and degradability

propan-2-ol

, BOD (% of COD).: 62 % ; Evaluation Biodegradable.

: 2,32 g oxigen/kg

12.3. Bioaccumulative potential

propan-2-ol

Partition coefficient: n-octanol/water: -0,16

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

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

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



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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

140603* other solvents and solvent mixtures

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Recommendation

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

SECTION 14: Transport information

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)

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 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

This product is not classified according to Directive 2012/18/EU.

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

VOC-value (in g/L) ISO 11890-2: 97 VOC-value (in g/L) ASTM D2369: 762

National regulations

Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Other information:

Switzerland:

Volatile organic compounds (VOC) content in percent by weight: 10

Denmark:

PR-No.:

MAL code (MAL code in mixture):

15.2. Chemical Safety Assessment

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



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Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of classification in section 3:

Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour. Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation. STOT SE 3 / H336 STOT-single exposure May cause drowsiness or dizziness.

Abbreviations and acronyms

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

OEL Occupational Exposure Limit Value

BLV Biological Limit Value CAS Chemical Abstracts Service

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

DIN German Institute for Standardization / German industrial standard

DNEL Derived No-Effect Level

EAKV European Waste Catalogue Directive

EC Effective Concentration
EC European Community
EN European Standard

IATA-DGR International Air Transport Association – Dangerous Goods Regulations

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

VOC Volatile Organic Compounds

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.