

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 1 / 9

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

1.1. Product identifier

Article No. (manufacturer/supplier) XP951A8ALN10
Trade name/designation [Z] ZowoTec® 385
Zwischenbeschichtung isolier.
Weiß deckend

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

Relevant identified uses

paint and/or paint related material
Reserved for industrial and professional use.

1.3. 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 / 8005-50
67269 Grünstadt

Dept. responsible for information:

Laboratory
E-mail Sicherheitsdaten@berger-zobel.de

1.4. Emergency telephone number

Emergency telephone number +49 6359 / 8005-70
Only available during office hours.

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 hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.
Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Warning

Hazard statements

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves and eye/face protection.

Hazard components for labelling

Hydrocarbons, C9-unsaturated, polymerized
1,2-benzisothiazol-3(2H)-one

Supplemental Hazard information (EU)

not applicable

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

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 2 / 9

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

| EC No. CAS No. INDEX No. | REACH No. Designation classification // Remark | Wt % |
|--------------------------------|---|---------|
| 615-276-3 71302-83-5 | 01-211955292-40-XXXX Hydrocarbons, C9-unsaturated, polymerized Skin Sens. 1 H317 / Aquatic Chronic 3 H412 | 1 - 2,5 |
| 248-258-5 27138-31-4 | 01-2119529241-49-XXXX Oxydipropyl dibenzoate Aquatic Chronic 3 H412 | 1 - 2,5 |
| 215-222-5 1314-13-2 | 01-2119463881-32-XXXX zinc oxide | 0,5 - 1 |
| 030-013-00-7 220-120-9 | Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 | |
| 2634-33-5 613-088-00-6 | 1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0,05 | < 0,5 |

Additional information

Full text of classification: 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.

After 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

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 3 / 9

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. 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).

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:

not applicable

DNEL:

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

DNEL long-term dermal (systemic), Workers: 83 mg/kg

DNEL long-term inhalative (systemic), Workers: 5 mg/m³

DNEL long-term oral (repeated), Consumer: 0,83 mg/kg

DNEL long-term dermal (systemic), Consumer: 83 mg/kg

DNEL long-term inhalative (systemic), Consumer: 2,5 mg/m³

Oxydipropyl dibenzoate

EC No. 248-258-5 / CAS No. 27138-31-4

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 4 / 9

DNEL acute dermal, short-term (systemic), Workers: 170 mg/kg
DNEL long-term dermal (systemic), Workers: 10 mg/kg
DNEL acute inhalative (systemic), Workers: 35,08 mg/m³
DNEL long-term inhalative (systemic), Workers: 8,8 mg/m³
DNEL short-term oral (acute), Consumer: 5 mg/kg
DNEL long-term oral (repeated), Consumer: 80 mg/kg
DNEL acute dermal, short-term (systemic), Consumer: 80 mg/kg
DNEL long-term dermal (systemic), Consumer: 220 µg/l
DNEL acute inhalative (systemic), Consumer: 8,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 8,69 mg/m³

PNEC:

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

PNEC aquatic, freshwater: 20,6 µgZn/L
PNEC aquatic, marine water: 6,1 µgZn/L
PNEC sediment, freshwater: 117,8 mgZn/L
PNEC sediment, marine water: 56,5 mgZn/L
PNEC, soil: 35,6 mgZn/L
PNEC sewage treatment plant (STP): 100 µgZn/L

Oxydipropyl dibenzoate

EC No. 248-258-5 / CAS No. 27138-31-4

PNEC aquatic, freshwater: 3,7 µg/l
PNEC aquatic, marine water: 370 ng/L
PNEC aquatic, intermittent release: 37 µg/l
PNEC sediment, freshwater: 1,49 mg/kg
PNEC sediment, marine water: 149 µg/kg
PNEC, soil: 1 mg/kg
PNEC sewage treatment plant (STP): 10 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 (maximum wearing 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

Appearance:

Physical state:

Colour:

Liquid

refer to chapter 1.

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 5 / 9

| | |
|--|---|
| Odour: | characteristic |
| Odour threshold: | not applicable |
| pH at 20 °C: | not applicable |
| Melting point/freezing point: | -70 °C Source: 3-hydroxy-2,2,4-trimethylpentyl 2-methylpropanoate |
| Initial boiling point and boiling range: | 100 °C Source: water |
| Flash point: | not applicable |
| Evaporation rate: | not applicable |
| flammability | |
| Burning time (s): | not applicable |
| Upper/lower flammability or explosive limits: | |
| Lower explosion limit: | not applicable |
| Upper explosion limit: | not applicable |
| Vapour pressure at 20 °C: | 23 mbar Method: calculated. Source: water |
| Vapour density: | not applicable |
| Relative density: | |
| Density at 20 °C: | 1,28 g/cm³ |
| Solubility(ies): | |
| Water solubility (g/L) at 20 °C: | partially soluble |
| Partition coefficient: n-octanol/water: | see section 12 |
| Auto-ignition temperature: | not applicable |
| Decomposition temperature: | not applicable |
| Viscosity at °C: | hochviskos |
| Explosive properties: | not applicable |
| Oxidising properties: | not applicable |
| 9.2. Other information | |
| Solid content (%): | 56,84 Wt % |
| solvent content: | |
| Organic solvents: | 3 Wt % |
| Water: | 40 Wt % |
| Solvent separation test (%): | < 3 Wt % (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

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 6 / 9

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

1,2-benzisothiazol-3(2H)-one
oral, LD50, Rat: 1150 mg/kg
dermal, LD50, Rat: > 2000 mg/kg
inhalative (vapours), LC50, Rat (4 h)

zinc oxide
oral, LD50, Rat: > 15000 mg/kg
inhalative (dust and mist), LC50, Rat: > 5,7 mg/l (4 h)
oral, LD50:, Mouse: 7950 mg/l

Oxydipropyl dibenzoate
oral, LD50, Rat: 3914 mg/kg
dermal, LD50, Rat: > 2000 mg/kg
inhalative (vapours), LC50, Rat: > 200 mg/l (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

1,2-benzisothiazol-3(2H)-one
Skin (4 h)
eyes

Respiratory or skin sensitisation

May cause an allergic skin reaction.

1,2-benzisothiazol-3(2H)-one
Skin:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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, fatigue, 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.

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

1,2-benzisothiazol-3(2H)-one
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,18 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 2,94 mg/l (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,11 mg/l (96 h)
Algae toxicity, EC50: 0,067 mg/l (72 h)

zinc oxide
Fish toxicity, LC50, Brachydanio rerio (zebra-fish): > 10000 mg/l (96 h)
Algae toxicity, ErC50, Scenedesmus subspicatus: 58,8 mg/l (72 h)

Oxydipropyl dibenzoate

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 7 / 9

Fish toxicity, LC50: 3,7 mg/l (96 h)
Daphnia toxicity, LL50: 19,3 mg/l (48 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

1,2-benzisothiazol-3(2H)-one
activated sludge, EC20, activated sludge: 3,3 mg/l (3 h)
Method: OECD 209

12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one
: > 90 %
Method: OECD 303 A

Oxydipropyl dibenzoate
: 87 % (28 D)

12.3. Bioaccumulative potential

1,2-benzisothiazol-3(2H)-one
Partition coefficient n-octanol / Water (log Kow): 0,7

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. 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

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*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

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

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 8 / 9

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. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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

VOC-value (in g/L) ISO 11890-2: 1

VOC-value (in g/L) ASTM D 2369: 1

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Full text of classification in section 3:

| | | |
|--------------------------|--------------------------------------|---|
| Skin Sens. 1 / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects. |
| Aquatic Acute 1 / H400 | Hazardous to the aquatic environment | Very toxic to aquatic organisms. |
| Aquatic Chronic 1 / H410 | Hazardous to the aquatic environment | Very toxic to aquatic life with long lasting effects. |
| Acute Tox. 4 / H302 | Acute toxicity (oral) | Harmful if swallowed. |
| Skin Irrit. 2 / H315 | Skin corrosion/irritation | Causes skin irritation. |
| Eye Dam. 1 / H318 | Serious eye damage/eye irritation | Causes serious eye damage. |

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1 Respiratory or skin sensitisation Calculation method.

Aquatic Chronic 3 Hazardous to the aquatic environment Calculation method.

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 |

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

[Z] ZOBEL

Coating Systems

Article No.: XP951A8ALN10 [Z] ZowoTec® 385
Print date: 08.04.2020 Revision date: 14.10.2019
Version: 2.0069 Issue date: 14.10.2019

EN
Page 9 / 9

| | |
|--------|---|
| 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.