



Safety Data Sheet according to Regulation (EC) No 1907/2006

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Pattex PL530

SDS No. : 612540
V002.0

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

1.1. Product identifier

Pattex PL530

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

Intended use:

Assembly adhesives

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

Fax-no.: +49 211 798 2009

ua-productsafety.de@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information

Contains: 1,2-Benzisothiazol-3(2H)-one **May produce an allergic reaction.**
Contains preservative(s): Isothiazolinone mixture 3:1 (CIT/MIT). **May produce an allergic reaction.**

Precautionary statement:

P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P262 Do not get in eyes, on skin, or on clothing.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General chemical description:**

1-Component assembly adhesive

Base substances of preparation:

Styrene-acrylate copolymer

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|---|-------------------------------|---|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 220-120-9 01-2120761540-60 | 0,005- < 0,05 % (50 ppm- < 500 ppm) | Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Acute Tox. 4 H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 2 H330 |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | 01-2120764691-48 | 0,0001- < 0,0015 % (1 ppm- < 15 ppm) | Acute Tox. 2; Inhalation H330 Aquatic Chronic 1 H410 Acute Tox. 3; Oral H301 Acute Tox. 2; Dermal H310 Eye Dam. 1 H318 Skin Sens. 1A H317 Aquatic Acute 1 H400 Skin Corr. 1C H314 M factor (Acute Aquat Tox): 100 M factor (Chron Aquat Tox): 100 |

For full text of the H - statements and other abbreviations see section 16 "Other information".**Substances without classification may have community workplace exposure limits available.****SECTION 4: First aid measures****4.1. Description of first aid measures****General information:**

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Store in a cool, dry place.

Temperatures between 0 °C and + 30 °C

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Assembly adhesives

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure Limits**Valid for
Germany

None

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|------------------------------------|-----------------|------------------|-----|------------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | aqua (freshwater) | | 0,00403 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | aqua (marine water) | | 0,000403 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | aqua (intermittent releases) | | 0,0011 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | sewage treatment plant (STP) | | 1,03 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | sediment (freshwater) | | | | 0,0499 mg/kg | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | sediment (marine water) | | | | 0,00499 mg/kg | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Soil | | | | 3 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | aqua (freshwater) | | 0,00339 mg/l | | | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | aqua (marine water) | | 0,00339 mg/l | | | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | sewage treatment plant (STP) | | 0,23 mg/l | | | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | sediment (freshwater) | | | | 0,027 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | sediment (marine water) | | | | 0,027 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | Soil | | | | 0,01 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | aqua (intermittent releases) | | 0,00339 mg/l | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|--------------------|-------------------|--|---------------|------------------------|---------|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Workers | inhalation | Long term exposure - systemic effects | | 6,81 mg/m ³ | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Workers | dermal | Long term exposure - systemic effects | | 0,966 mg/kg | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | General population | inhalation | Long term exposure - systemic effects | | 1,2 mg/m ³ | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | General population | dermal | Long term exposure - systemic effects | | 0,345 mg/kg | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Workers | inhalation | Long term exposure - local effects | | 0,02 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Workers | inhalation | Acute/short term exposure - local effects | | 0,04 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | inhalation | Long term exposure - local effects | | 0,02 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | inhalation | Acute/short term exposure - local effects | | 0,04 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | oral | Long term exposure - systemic effects | | 0,09 mg/kg | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | oral | Acute/short term exposure - systemic effects | | 0,11 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

Eye protection:

Goggles which can be tightly sealed.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance

paste

liquid

white

Odor

typical

Odour threshold

No data available / Not applicable

pH

7,8 - 9,8

| | |
|--|------------------------------------|
| (20 °C (68 °F)) | |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 100 °C (212 °F) |
| Flash point | Not applicable |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | No data available / Not applicable |
| Density | 1,29 - 1,40 g/cm ³ |
| (20 °C (68 °F)) | |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | Insoluble |
| (23 °C (73.4 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with acids: production of heat and carbon dioxide.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|--|---------------|-----------|---------|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | LD50 | 490 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | LD50 | 66 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|--|---------------|---------------|---------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | LD50 | 87,12 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|--|---------------|------------|-----------------|------------------|---------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | LC50 | 0,4 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | LC50 | 0,171 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|--------------------------|------------------|---------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | moderately irritating | 4 h | rabbit | EPA OPP 81-5 (Acute Dermal Irritation) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | corrosive | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|---|------------------|---------|-------------------------------------|
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | corrosive | 3 h | rabbit | EPA OPP 81-4 (Acute Eye Irritation) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | Category 1 (irreversible effects on the eye) | | rabbit | not specified |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|--|-------------|---------------------------------------|------------|--|
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | not specified |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---------------------------------------|--|--------------------------------------|-------------------------|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | positive without metabolic activation | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | ambiguous | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | positive | in vitro mammalian chromosome aberration test | with and without | | EPA OPP 84-2 (Mutagenicity Testing) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | positive | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | negative | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | not applicable | | OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | negative | oral: unspecified | | rat | OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | negative | oral: gavage | | mouse | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | negative | oral: feed | | Drosophila melanogaster | OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | negative | oral: gavage | | rat | OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | negative | oral: gavage | | rat | EPA OPP 84-2 (Mutagenicity Testing) |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|------------------|----------------------|--|---------|-------------|--|
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | not carcinogenic | oral: drinking water | 2 y daily | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|----------------------|-------------------------|---------|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOAEL P 112 mg/kg NOAEL F1 56,6 mg/kg NOAEL F2 56,6 mg/kg | Two generation study | oral: feed | rat | EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOAEL P 30 ppm NOAEL F1 300 ppm NOAEL F2 300 ppm | Two generation study | oral: drinking water | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|------------------------------|-------------------------|--|---------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOAEL 150 mg/kg | oral: gavage | 28 days daily | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOAEL 69 mg/kg | oral: feed | 90 days daily | rat | EPA OPP 82-1 (90-Day Oral Toxicity) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOAEL 16,3 mg/kg | oral: drinking water | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOAEL 0.34 mg/m ³ | inhalation: aerosol | 90 d 6 h/d, 5 d/w | rat | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOAEL 2,625 mg/kg | dermal | 90 d 6 h/d | rat | EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days) |

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|------------|---------------|---------------------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | LC50 | 2,15 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOEC | 0,21 mg/l | 30 d | Oncorhynchus mykiss | OECD Guideline 215 (Fish, Juvenile Growth Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | LC50 | 0,22 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOEC | 0,098 mg/l | 28 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------|---------------|---------------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | 2,9 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | EC50 | 0,12 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-------------|---------------|---------------|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOEC | 1,2 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOEC | 0,0036 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------|---------------|---------------------------------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | 0,11 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOEC | 0,0403 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | EC50 | 0,0052 mg/l | 48 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | NOEC | 0,00064 mg/l | 48 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------|---------------|--|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | 23 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | EC20 | 0,97 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|----------------------------|-----------|---------------|------------------|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | not readily biodegradable. | aerobic | 42,1 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | inherently biodegradable | aerobic | 100 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | readily biodegradable | aerobic | > 60 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|--|-----------------------------------|---------------|-------------|---------------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 6,62 | 56 day | | not specified | other guideline: |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | 3,6 | | | calculation | QSAR (Quantitative Structure Activity Relationship) |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|--------------|-------------|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 0,7 | 20 °C | EU Method A.8 (Partition Coefficient) |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | -0,71 - 0,75 | 20 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|---|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080410

SECTION 14: Transport information

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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**

VOC content 0,0 %
(VOCV 814.018 VOC regulation
CH)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK = 1, slightly water endangering mixture. Classification according to the mixture rules in German AwSV regulation annex 1, number 5.2 from 18. April 2017.

Storage class according to TRGS 510: 10

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal 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.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.