



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

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SDS No. : 512143  
V004.0

Pattex NMN Invisible Cartridge

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Replaces version from:  
17.01.2018

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

#### 1.1. Product identifier

Pattex NMN Invisible Cartridge

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

Intended use:

Assembly adhesive, dispersion

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

Henkel South Africa (PTY) Ltd.  
Cnr Bosworth & Potgieter St  
1449 Alberton

South Africa

Phone: +27 (116172400)

ua-productsafety\_za@henkel.com

#### 1.4. Emergency telephone number

0800 202 202

### 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).

##### Classification (DPD):

No classification required.

#### 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; Isothiazolinone mixture 3:1 (CIT/MIT) May produce an allergic reaction.

##### Precautionary statement:

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

**Label elements (DPD):**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

**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 dispersion

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

| Hazardous components<br>CAS-No.                     | EC Number<br>REACH-RegNo. | content      | Classification   |
|---|---------------------------|--------------|--|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5           | 220-120-9                 | 50- <500 PPM | Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410<br>Acute Tox. 4<br>H302<br>Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Dam. 1<br>H318<br>Acute Tox. 2<br>H330  |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>55965-84-9 |                           | 1- < 15 PPM  | Acute Tox. 2; Inhalation<br>H330<br>Aquatic Chronic 1<br>H410<br>Acute Tox. 3; Oral<br>H301<br>Acute Tox. 2; Dermal<br>H310<br>Eye Dam. 1<br>H318<br>Skin Sens. 1A<br>H317<br>Aquatic Acute 1<br>H400<br>Skin Corr. 1C<br>H314 |

**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.**

**Declaration of ingredients according to DPD (EC) No 1999/45:**

| Hazardous components<br>CAS-No.                     | EC Number<br>REACH-RegNo. | content        | Classification  |
|---|---------------------------|----------------|---|
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>55965-84-9 |                           | 1 - < 15 PPM   | T+- Very toxic; R26<br>T - Toxic; R24/25<br>C - Corrosive; R34<br>Xi - Irritant; R43<br>N - Dangerous for the environment; R50/53 |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5           | 220-120-9                 | 50 - < 500 PPM | Xi - Irritant; R38, R41<br>R43<br>N - Dangerous for the environment; R50<br>Xn - Harmful; R22                                     |

**For full text of the R-Phrases indicated by codes 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: Fire fighting 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 (CO<sub>2</sub>) 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:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Store in a cool, frost-free place.

Avoid strictly temperatures below + 5 °C and above + 50 °C.

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

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

Assembly adhesive, dispersion

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for  
South Africa

None

**Predicted No-Effect Concentration (PNEC):**

| Name on list  | Environmental<br>Compartment       | Exposure<br>period | Value            |     |                  |        | Remarks |
|---|------------------------------------|--------------------|------------------|-----|------------------|--------|---------|
|   |                                    |                    | mg/l             | ppm | mg/kg            | others |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | aqua<br>(freshwater)               |                    | 0,00403<br>mg/l  |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | aqua (marine<br>water)             |                    | 0,000403<br>mg/l |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | aqua<br>(intermittent<br>releases) |                    | 0,0011<br>mg/l   |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | sewage<br>treatment plant<br>(STP) |                    | 1,03 mg/l        |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | sediment<br>(freshwater)           |                    |                  |     | 0,0499<br>mg/kg  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | sediment<br>(marine water)         |                    |                  |     | 0,00499<br>mg/kg |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | Soil                               |                    |                  |     | 3 mg/kg          |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | aqua<br>(freshwater)               |                    | 0,00339<br>mg/l  |     |                  |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | aqua (marine<br>water)             |                    | 0,00339<br>mg/l  |     |                  |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | sewage<br>treatment plant<br>(STP) |                    | 0,23 mg/l        |     |                  |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | sediment<br>(freshwater)           |                    |                  |     | 0,027<br>mg/kg   |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | sediment<br>(marine water)         |                    |                  |     | 0,027<br>mg/kg   |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | Soil                               |                    |                  |     | 0,01 mg/kg       |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | aqua<br>(intermittent<br>releases) |                    | 0,00339<br>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<br>2634-33-5   | Workers            | inhalation        | Long term exposure - systemic effects        |               | 6,81 mg/m <sup>3</sup> |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | Workers            | dermal            | Long term exposure - systemic effects        |               | 0,966 mg/kg            |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | General population | inhalation        | Long term exposure - systemic effects        |               | 1,2 mg/m <sup>3</sup>  |         |
| 1,2-Benzisothiazol-3(2H)-one<br>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<br>55965-84-9 | Workers            | inhalation        | Long term exposure - local effects           |               | 0,02 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 0,04 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | General population | inhalation        | Long term exposure - local effects           |               | 0,02 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | General population | inhalation        | Acute/short term exposure - local effects    |               | 0,04 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>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<br>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  
thick  
transparent

Odor

no valuation

Odour threshold

No data available / Not applicable

pH

No data available / Not applicable

|   |                                    |
|---|------------------------------------|
| Melting point   | No data available / Not applicable |
| Solidification temperature                                    | No data available / Not applicable |
| Initial boiling point   | No data available / Not applicable |
| Flash point   | No data available / 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<br>(23 °C (73.4 °F))                                  | 1,01 - 1,04 g/cm <sup>3</sup>      |
| Bulk density  | No data available / Not applicable |
| Solubility  | No data available / Not applicable |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Water) | Miscible                           |
| 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

None if used for intended purpose.

### 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

None if used properly.

### 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<br>CAS-No.                        | Value<br>type | Value     | Species | Method  |
|--|---------------|-----------|---------|---|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | LD50          | 490 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Isothiazolinone mixture<br>3:1 (CIT/MIT)<br>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<br>2634-33-5           | LD50       | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>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<br>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)<br>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<br>2634-33-5           | moderately irritating | 4 h           | rabbit  | EPA OPP 81-5 (Acute Dermal Irritation)                  |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>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<br>2634-33-5           | corrosive                                    | 3 h           | rabbit  | EPA OPP 81-4 (Acute Eye Irritation) |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>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<br>2634-33-5           | sensitising | Guinea pig maximisation test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                         |
| 1,2-Benzisothiazol-3(2H)-one<br>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)<br>55965-84-9 | sensitising | Guinea pig maximisation test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                         |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>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<br>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<br>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<br>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)<br>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)<br>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)<br>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)<br>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<br>2634-33-5           | negative                              | oral: gavage   |                                     | mouse                   | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)  |
| 1,2-Benzisothiazol-3(2H)-one<br>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)<br>55965-84-9 | negative                              | oral: gavage   |                                     | mouse                   | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)  |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>55965-84-9 | negative                              | oral: gavage   |                                     | mouse                   | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)   |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>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)<br>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)<br>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)<br>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<br>2634-33-5           | NOAEL P 112 mg/kg<br>NOAEL F1 56,6 mg/kg<br>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)<br>55965-84-9 | NOAEL P 30 ppm<br>NOAEL F1 300 ppm<br>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<br>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<br>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)<br>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)<br>55965-84-9 | NOAEL 0.34 mg/m <sup>3</sup> | 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)<br>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, soil or bodies of 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<br>CAS-No.                        | Value<br>type | Value      | Exposure time | Species             | Method   |
|--|---------------|------------|---------------|---------------------|--|
| 1,2-Benzisothiazol-3(2H)-one<br>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<br>2634-33-5              | NOEC          | 0,21 mg/l  | 30 d          | Oncorhynchus mykiss | OECD Guideline 215 (Fish, Juvenile Growth Test)          |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>55965-84-9 | LC50          | 0,22 mg/l  | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>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<br>CAS-No.                        | Value<br>type | Value     | Exposure time | Species       | Method   |
|--|---------------|-----------|---------------|---------------|--|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | EC50          | 2,9 mg/l  | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>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<br>CAS-No.                        | Value<br>type | Value       | Exposure time | Species       | Method                                      |
|--|---------------|-------------|---------------|---------------|---|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | NOEC          | 1,2 mg/l    | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>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<br>CAS-No.                        | Value<br>type | Value        | Exposure time | Species                         | Method   |
|--|---------------|--------------|---------------|---------------------------------|--|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | EC50          | 0,11 mg/l    | 72 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | NOEC          | 0,0403 mg/l  | 72 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>55965-84-9 | EC50          | 0,0052 mg/l  | 48 h          | Skeletonema costatum            | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>55965-84-9 | NOEC          | 0,00064 mg/l | 48 h          | Skeletonema costatum            | OECD Guideline 201 (Alga,<br>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<br>CAS-No.                        | Value<br>type | Value     | Exposure time | Species  | Method   |
|--|---------------|-----------|---------------|--|--|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | EC50          | 23 mg/l   | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>55965-84-9 | EC20          | 0,97 mg/l | 3 h           | activated sludge                                       | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

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

#### 12.4. Mobility in soil

| Hazardous substances<br>CAS-No.                        | LogPow       | Temperature | Method  |
|--|--------------|-------------|---|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5              | 0,7          | 20 °C       | EU Method A.8 (Partition Coefficient)                                       |
| Isothiazolinone mixture 3:1<br>(CIT/MIT)<br>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<br>CAS-No.                     | PBT/ vPvB   |
|---|---|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5           | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>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

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

### 14.2. UN proper shipping name

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

### 14.3. Transport hazard class(es)

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

### 14.4. Packing group

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

### 14.5. Environmental hazards

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

### 14.6. Special precautions for user

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | 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

VOC content 0 %  
(VOCV 814.018 VOC regulation)

CH)

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## 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:

- R22 Harmful if swallowed.
- R24/25 Toxic in contact with skin and if swallowed.
- R26 Very toxic by inhalation.
- R34 Causes burns.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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:

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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