



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

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Ponal Classic

SDS No. : 41529  
V006.0

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

#### 1.1. Product identifier

Ponal Classic

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

Intended use:

Wood adhesive, dispersion

#### 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

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.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; Isothiazolinone mixture (C(M)IT/MIT (3:1))  
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.

**2.3. Other hazards**

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

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

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

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.                   | Concentration                                     | Classification                                                                                                                                                                                                 | Specific Conc. Limits, M-factors and ATEs                                                                                                                                                                                                                | Add. Information |
|---------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5<br>220-120-9<br>01-2120761540-60      | 0,0036 - < 0,036<br>%<br>( 36 ppm - < 360<br>ppm) | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Acute Tox. 4, Oral, H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1A, H317<br>Eye Dam. 1, H318<br>Acute Tox. 2, Inhalation, H330                               | Skin Sens. 1A; H317; C $\geq$ 0,036<br>%<br>=====<br>M acute = 1<br>M chronic = 1<br>=====<br>oral:ATE = 450 mg/kg<br>inhalation:ATE = 0,21<br>mg/l;dust/mist                                                                                            |                  |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9<br>01-2120764691-48 | 0,0001 - < 0,0015<br>%<br>( 1 ppm - < 15 ppm)     | Aquatic Chronic 1, H410<br>Skin Corr. 1C, H314<br>Acute Tox. 2, Dermal, H310<br>Acute Tox. 3, Oral, H301<br>Eye Dam. 1, H318<br>Acute Tox. 2, Inhalation, H330<br>Aquatic Acute 1, H400<br>Skin Sens. 1A, H317 | Skin Irrit. 2; H315; C 0,06 - < 0,6<br>%<br>Skin Corr. 1C; H314; C $\geq$ 0,6 %<br>Eye Irrit. 2; H319; C 0,06 - < 0,6<br>%<br>Eye Dam. 1; H318; C $\geq$ 0,6 %<br>Skin Sens. 1A; H317; C $\geq$<br>0,0015 %<br>=====<br>M acute = 100<br>M chronic = 100 |                  |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.  
For full text of the H - statements and other abbreviations see section 16 "Other information".

**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 (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.

#### **6.2. Environmental precautions**

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

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

Remove with liquid-absorbing material (sand, peat, sawdust).

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**

< + 35 °C

> + 5 °C

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

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

Wood adhesive, dispersion

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

| Ingredient [Regulated substance]            | ppm | mg/m <sup>3</sup> | Value type                          | Short term exposure limit category / Remarks                                                                                                   | Regulatory list |
|---------------------------------------------|-----|-------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 2-(2-Butoxyethoxy)ethyl acetate<br>124-17-4 | 10  | 67                | Exposure limit(s):                  | 1.5<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                           | TRGS 900        |
| 2-(2-Butoxyethoxy)ethyl acetate<br>124-17-4 |     |                   | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900        |

**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                                                                  | Freshwater -<br>intermittent       |                    | 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          |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5                                                                  | Marine water -<br>intermittent     |                    | 0,000110<br>mg/l |     |                  |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | aqua<br>(freshwater)               |                    | 0,00339<br>mg/l  |     |                  |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | aqua (marine<br>water)             |                    | 0,00339<br>mg/l  |     |                  |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | sewage<br>treatment plant<br>(STP) |                    | 0,23 mg/l        |     |                  |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | sediment<br>(freshwater)           |                    |                  |     | 0,027<br>mg/kg   |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | sediment<br>(marine water)         |                    |                  |     | 0,027<br>mg/kg   |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | Soil                               |                    |                  |     | 0,01 mg/kg       |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | Freshwater -<br>intermittent       |                    | 0,00339<br>mg/l  |     |                  |        |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | Marine water -<br>intermittent     |                    | 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            |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | Workers            | inhalation        | Long term exposure - local effects           |               | 0,02 mg/m <sup>3</sup> |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 0,04 mg/m <sup>3</sup> |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | General population | inhalation        | Long term exposure - local effects           |               | 0,02 mg/m <sup>3</sup> |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | General population | inhalation        | Acute/short term exposure - local effects    |               | 0,04 mg/m <sup>3</sup> |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<br>55965-84-9 | General population | oral              | Long term exposure - systemic effects        |               | 0,09 mg/kg             |         |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-,<br>mixt. with 2-methyl-3(2H)-isothiazolone<br>(3:1)<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**

Delivery form

liquid

Colour

white

Odor

little intrinsic odour

Physical state

liquid

Melting point

Not applicable, Product is a liquid

Initial boiling point

Not available.

|                                                                                |                                                                                                                                     |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                                                                   | Not applicable                                                                                                                      |
| Explosive limits                                                               | Currently under determination                                                                                                       |
| Flash point                                                                    | Not available.                                                                                                                      |
| Auto-ignition temperature                                                      | Currently under determination                                                                                                       |
| Decomposition temperature                                                      | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH<br>(20 °C (68 °F); Conc.: 100 % product)                                    | 5,5 - 7,5                                                                                                                           |
| Viscosity (kinematic)                                                          | Currently under determination                                                                                                       |
| Viscosity, dynamic<br>(Brookfield; speed of rotation: 20 min-1; Spindle No: 6) | 9.000 - 21.000 mPa.s ISO 2555-89 Viscosity according to Brookfield                                                                  |
| Solubility (qualitative)                                                       | Currently under determination                                                                                                       |
| Partition coefficient: n-octanol/water                                         | Not applicable<br>Mixture                                                                                                           |
| Vapour pressure                                                                | Not available.                                                                                                                      |
| Density<br>(25 °C (77 °F))                                                     | 0,95 - 1,1 g/cm <sup>3</sup> no method / method unknown                                                                             |
| Relative vapour density:                                                       | Not available.                                                                                                                      |
| Particle characteristics                                                       | Not applicable<br>Product is a liquid                                                                                               |

## 9.2. Other information

Other information not applicable for this product

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### 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                | Acute toxicity estimate (ATE) | 450 mg/kg |         | Expert judgement                         |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<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<br>CAS-No.                          | Value<br>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 (C(M)IT/MIT (3:1))<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<br>CAS-No.                          | Value<br>type                 | Value      | Test atmosphere | Exposure<br>time | Species | Method                                         |
|----------------------------------------------------------|-------------------------------|------------|-----------------|------------------|---------|------------------------------------------------|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5                | Acute toxicity estimate (ATE) | 0,21 mg/l  | dust/mist       |                  |         | Expert judgement                               |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<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<br>CAS-No.                          | Result                | Exposure<br>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 (C(M)IT/MIT (3:1))<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<br>CAS-No.                             | Result                                                | Exposure<br>time | Species | Method                              |
|-------------------------------------------------------------|-------------------------------------------------------|------------------|---------|-------------------------------------|
| 1,2-Benzisothiazol-3(2H)-<br>one<br>2634-33-5               | corrosive                                             | 3 h              | rabbit  | EPA OPP 81-4 (Acute Eye Irritation) |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | Category 1<br>(irreversible<br>effects on the<br>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<br>CAS-No.                             | Result      | Test type                             | Species    | Method                                                             |
|-------------------------------------------------------------|-------------|---------------------------------------|------------|--------------------------------------------------------------------|
| 1,2-Benzisothiazol-3(2H)-<br>one<br>2634-33-5               | sensitising | Guinea pig maximisation<br>test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                            |
| 1,2-Benzisothiazol-3(2H)-<br>one<br>2634-33-5               | sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | sensitising | Guinea pig maximisation<br>test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                            |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | sensitising | Mouse local lymphnode<br>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 (C(M)IT/MIT (3:1))<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 (C(M)IT/MIT (3:1))<br>55965-84-9 | positive                              | in vitro mammalian chromosome aberration test                                      | with and without                     |                         | EPA OPP 84-2 (Mutagenicity Testing)                                                                                   |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<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 (C(M)IT/MIT (3:1))<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 (C(M)IT/MIT (3:1))<br>55965-84-9 | negative                              | oral: gavage                                                                       |                                      | mouse                   | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)                                                          |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<br>55965-84-9 | negative                              | oral: gavage                                                                       |                                      | mouse                   | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)                                                 |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<br>55965-84-9 | negative                              | oral: feed                                                                         |                                      | Drosophila melanogaster | OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)                  |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<br>55965-84-9 | negative                              | oral: gavage                                                                       |                                      | rat                     | OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)                          |
| Isothiazolinone mixture (C(M)IT/MIT (3:1))<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 (C(M)IT/MIT (3:1))<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<br>CAS-No.                             | Result / Value                                                  | Test type                  | Route of<br>application    | Species | Method                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------|----------------------------|---------|------------------------------------------------------------------------|
| 1,2-Benzisothiazol-3(2H)-<br>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<br>generation<br>study | oral: feed                 | rat     | EPA OPPTS 870.3800<br>(Reproduction and Fertility<br>Effects)          |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | NOAEL P 30 ppm<br>NOAEL F1 300 ppm<br>NOAEL F2 300 ppm          | Two<br>generation<br>study | oral:<br>drinking<br>water | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>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<br>CAS-No.                             | Result / Value               | Route of<br>application    | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                   |
|-------------------------------------------------------------|------------------------------|----------------------------|----------------------------------------------|---------|--------------------------------------------------------------------------|
| 1,2-Benzisothiazol-3(2H)-<br>one<br>2634-33-5               | NOAEL 150 mg/kg              | oral: gavage               | 28 days<br>daily                             | rat     | OECD Guideline 407<br>(Repeated Dose 28-Day<br>Oral Toxicity in Rodents) |
| 1,2-Benzisothiazol-3(2H)-<br>one<br>2634-33-5               | NOAEL 69 mg/kg               | oral: feed                 | 90 days<br>daily                             | rat     | EPA OPP 82-1 (90-Day<br>Oral Toxicity)                                   |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | NOAEL 16,3 mg/kg             | oral:<br>drinking<br>water | 90 d<br>daily                                | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | NOAEL 0.34 mg/m <sup>3</sup> | inhalation:<br>aerosol     | 90 d<br>6 h/d, 5 d/w                         | rat     | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)        |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | NOAEL 2,625 mg/kg            | dermal                     | 90 d<br>6 h/d                                | rat     | EPA OPP 82-3<br>(Subchronic Dermal<br>Toxicity 90 Days)                  |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## 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.

The table below presents the data of 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<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | LC50          | 0,22 mg/l  | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | NOEC          | 0,098 mg/l | 28 d          | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |

#### Toxicity (aquatic invertebrates):

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

The table below presents the data of 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<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | EC50          | 0,12 mg/l | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of 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<br>(C(M)IT/MIT (3:1))<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.

The table below presents the data of 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          | 0,1087 mg/l  | 24 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5                   | EC10          | 0,0264 mg/l  | 24 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | EC50          | 0,0052 mg/l  | 72 h          | Skeletonema costatum            | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | NOEC          | 0,00064 mg/l | 48 h          | Skeletonema costatum            | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

#### Toxicity (microorganisms):

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

The table below presents the data of 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<br>(C(M)IT/MIT (3:1))<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

The table below presents the data of the classified substances present in the mixture.

| 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<br>(C(M)IT/MIT (3:1))<br>55965-84-9 | inherently biodegradable   | aerobic   | 100 %         | 28 d             | OECD Guideline 302 B (Inherent<br>biodegradability: Zahn-<br>Wellens/EMPA Test) |
| Isothiazolinone mixture<br>(C(M)IT/MIT (3:1))<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

The table below presents the data of the classified substances present in the mixture.

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

**12.4. Mobility in soil**

The table below presents the data of the classified substances present in the mixture.

| 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<br>(C(M)IT/MIT (3:1))<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**

The table below presents the data of the classified substances present in the mixture.

| 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 (C(M)IT/MIT (3:1))<br>55965-84-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. 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 or ID 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. Maritime transport in bulk according to IMO instruments**  
not applicable

### SECTION 15: Regulatory information

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

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Germany):**

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )  
Classification according to AwSV, Annex 1 (5.2)

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.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

### Further information:

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