



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

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UniBond Indoor W&D Frame white

SDS No. : 708334
V002.0

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

1.1. Product identifier

UniBond Indoor W&D Frame white

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

Intended use:

Joint sealant, acrylate

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizer

Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment

Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

2-Octyl-2H-isothiazol-3-one

| | |
|--|--|
| Signal word: | Warning |
| Hazard statement: | H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. |
| Supplemental information | EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. 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. |
| Precautionary statement: Prevention | P261 Avoid breathing mist/vapours. P273 Avoid release to the environment. P280 Wear protective gloves. |
| Precautionary statement: Response | P302+P352 IF ON SKIN: Wash with plenty of soap and water. |
| Precautionary statement: Disposal | P501 Dispose of contents/container in accordance with national regulation. |

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 CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|--|---|--|---|------------------|
| Titanium dioxide 13463-67-7 236-675-5 01-2119489379-17 | 1- < 5 % | Carc. 2, Inhalation, H351 | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 220-120-9 01-2120761540-60 | 0,0036- < 0,036 % (36 ppm- < 360 ppm) | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, Inhalation, H330 | Skin Sens. 1A; H317; C >= 0,036 % ===== M acute = 1 M chronic = 1 ===== oral:ATE = 450 mg/kg inhalation:ATE = 0,21 mg/l;dust/mist | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 247-761-7 01-2120768921-45 | 0,0025- < 0,025 % (25 ppm- < 250 ppm) | Acute Tox. 2, Inhalation, H330 Acute Tox. 3, Dermal, H311 Skin Corr. 1, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Acute Tox. 3, Oral, H301 Aquatic Chronic 1, H410 Eye Dam. 1, H318 | Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 M chronic = 100 ===== dermal:ATE = 311 mg/kg oral:ATE = 125 mg/kg inhalation:ATE = 0,27 mg/l;dust/mist | |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 01-2120764691-48 | 0,0001- < 0,0015 % (1 ppm- < 15 ppm) | Aquatic Chronic 1, H410 Skin Corr. 1C, H314 Acute Tox. 2, Dermal, H310 Acute Tox. 3, Oral, H301 Eye Dam. 1, H318 Acute Tox. 2, Inhalation, H330 Aquatic Acute 1, H400 Skin Sens. 1A, H317 | Skin Irrit. 2; H315; C 0,06 - < 0,6 % Skin Corr. 1C; H314; C >= 0,6 % Eye Irrit. 2; H319; C 0,06 - < 0,6 % Eye Dam. 1; H318; C >= 0,6 % Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 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

May cause an allergic skin reaction.

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.

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

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

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.

Storage at 5 to 25°C is recommended.

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

7.3. Specific end use(s)

Joint sealant, acrylate

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Limestone 1317-65-3 [CALCIUM CARBONATE, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |

Occupational Exposure Limits

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Limestone 1317-65-3 [CALCIUM CARBONATE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |

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 | Freshwater - intermittent | | 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 | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Marine water - intermittent | | 0,000110 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | sediment (freshwater) | | | | 0,0475 mg/kg | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | sediment (marine water) | | | | 0,00475 mg/kg | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | aqua (freshwater) | | 0,0022 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | aqua (intermittent releases) | | 0,0012 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | aqua (marine water) | | 0,00022 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Soil | | | | 0,0082 mg/kg | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | aqua (freshwater) | | 0,00339 mg/l | | | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | aqua (marine water) | | 0,00339 mg/l | | | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | sewage treatment plant (STP) | | 0,23 mg/l | | | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | sediment (freshwater) | | | | 0,027 mg/kg | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | sediment (marine water) | | | | 0,027 mg/kg | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | Soil | | | | 0,01 mg/kg | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | Freshwater - intermittent | | 0,00339 mg/l | | | | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | Marine water - intermittent | | 0,00339 mg/l | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|--|---------------|-------------------------|---------|
| Titanium dioxide 13463-67-7 | Workers | inhalation | Long term exposure - local effects | | 0,17 mg/m ³ | |
| Titanium dioxide 13463-67-7 | General population | inhalation | Long term exposure - local effects | | 0,028 mg/m ³ | |
| 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 | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | Workers | inhalation | Long term exposure - local effects | | 0,02 mg/m ³ | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | Workers | inhalation | Acute/short term exposure - local effects | | 0,04 mg/m ³ | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | General population | inhalation | Long term exposure - local effects | | 0,02 mg/m ³ | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | General population | inhalation | Acute/short term exposure - local effects | | 0,04 mg/m ³ | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9 | General population | oral | Long term exposure - systemic effects | | 0,09 mg/kg | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 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:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.1 mm

Perforation time > 480 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

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 | paste |
| Colour | white |
| Odor | specific |
| Physical state | solid |
| Melting point | 0 °C (32 °F) |
| Solidification temperature | Not applicable, Product is a solid. |
| Initial boiling point | 100 °C (212 °F) |
| Flammability | The product is not flammable. |
| Explosive limits | Not applicable, Product is a solid. |
| Flash point | Not applicable, Product is a solid. |
| Auto-ignition temperature | Not applicable, Product is a solid. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | 7,5 - 9,5 |
| (20 °C (68 °F); Conc.: 100 %; Solvent: Water) | |
| Viscosity (kinematic) | Not applicable, Product is a solid. |
| Solubility (qualitative) | Partially miscible |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure | Mixture |
| (20 °C (68 °F)) | 23 hPa |
| Density | 1,65 g/cm ³ no method / method unknown |
| (20 °C (68 °F)) | |
| Relative vapour density: | Not applicable, Product is a solid. |
| Particle characteristics | Particle Size Not applicable, mixture is a paste. |

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:**

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|--|---------------|---------|---|
| Titanium dioxide 13463-67-7 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | Acute toxicity estimate (ATE) | 450 mg/kg | | Expert judgement |
| 2-Octyl-2H-isothiazol-3- one 26530-20-1 | Acute toxicity estimate (ATE) | 125 mg/kg | | Expert judgement |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | LD50 | 66 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal toxicity:

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|--|----------------|---------|--|
| Titanium dioxide 13463-67-7 | LD50 | > 10.000 mg/kg | rabbit | not specified |
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Octyl-2H-isothiazol-3- one 26530-20-1 | Acute toxicity estimate (ATE) | 311 mg/kg | | Expert judgement |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | LD50 | 87,12 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative toxicity:

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|--|-------------|-----------------|------------------|---------|---|
| Titanium dioxide 13463-67-7 | LC50 | > 6,82 mg/l | dust | 4 h | rat | not specified |
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | Acute toxicity estimate (ATE) | 0,21 mg/l | dust/mist | | | Expert judgement |
| 2-Octyl-2H-isothiazol-3- one 26530-20-1 | Acute toxicity estimate (ATE) | 0,27 mg/l | dust/mist | 4 h | | Expert judgement |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | LC50 | 0,171 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|--------------------------|------------------|---------|--|
| Titanium dioxide 13463-67-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | moderately irritating | 4 h | rabbit | EPA OPP 81-5 (Acute Dermal Irritation) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | corrosive | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|---|------------------|---------|---|
| Titanium dioxide 13463-67-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 1,2-Benzisothiazol-3(2H)- one 2634-33-5 | corrosive | 3 h | rabbit | EPA OPP 81-4 (Acute Eye Irritation) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | Category 1 (irreversible effects on the eye) | | rabbit | not specified |

Respiratory or skin sensitization:

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---|-----------------|---------------------------------------|------------|--|
| Titanium dioxide 13463-67-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide 13463-67-7 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 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) |
| 2-Octyl-2H-isothiazol-3- one 26530-20-1 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | not specified |

Germ cell mutagenicity:

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|--|---|---|----------------------------|---|
| Titanium dioxide 13463-67-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Titanium dioxide 13463-67-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian cell micronucleus test | without | | equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| 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 (C(M)IT/MIT (3:1)) 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)) 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)) 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)) 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) |
| Titanium dioxide 13463-67-7 | negative | oral: gavage | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| 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 (C(M)IT/MIT (3:1)) 55965-84-9 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | negative | oral: gavage | | mouse | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 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)) 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)) 55965-84-9 | negative | oral: gavage | | rat | EPA OPP 84-2 (Mutagenicity Testing) |

Carcinogenicity

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|--|------------------|----------------------|--|---------|-------------|--|
| Titanium dioxide 13463-67-7 | not carcinogenic | oral: feed | 103 w daily | rat | male/female | not specified |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | not carcinogenic | oral: drinking water | 2 y daily | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|---|----------------------|----------------------|---------|--|
| Titanium dioxide 13463-67-7 | NOAEL P >= 1.000 mg/kg NOAEL F1 >= 1.000 mg/kg | one-generation study | oral: feed | rat | OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) |
| 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 (C(M)IT/MIT (3:1)) 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:

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|---------------------|----------------------|--|---------|--|
| Titanium dioxide 13463-67-7 | NOAEL > 1.000 mg/kg | oral: gavage | 92 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 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 (C(M)IT/MIT (3:1)) 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 (C(M)IT/MIT (3:1)) 55965-84-9 | NOAEL 0.34 mg/m3 | inhalation: aerosol | 90 d 6 h/d, 5 d/w | rat | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 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.

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---------------------|---|
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 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) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | LC50 | 0,036 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | NOEC | 0,022 mg/l | 21 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | LC50 | 0,22 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 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 table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---------------|--|
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 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) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | EC50 | 0,42 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---------------|--|
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | NOEC | 1,2 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | NOEC | 0,0016 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | NOEC | 0,0036 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|------------|-----------------------------|---------------|---------------------------------|---|
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | 0,1087 mg/l | 24 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC10 | 0,0264 mg/l | 24 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | EC50 | 0,00129 mg/l | 48 h | Navicula pelliculosa | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | EC10 | 0,000224 mg/l | 48 h | Navicula pelliculosa | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | EC50 | 0,0052 mg/l | 72 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | NOEC | 0,00064 mg/l | 48 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|------------|-----------------------------|---------------|---|--|
| Titanium dioxide 13463-67-7 | EC0 | Toxicity > Water solubility | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |
| 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 (C(M)IT/MIT (3:1)) 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

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

| 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) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | not readily biodegradable. | aerobic | 35 % | 21 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | inherently biodegradable | aerobic | 100 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 | readily biodegradable | aerobic | > 60 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

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

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

12.4. Mobility in soil

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

| 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) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | 2,9 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 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 CAS-No. | PBT / vPvB |
|--|---|
| Titanium dioxide 13463-67-7 | According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isothiazolinone mixture (C(M)IT/MIT (3:1)) 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

080409

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

No information available:

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.

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.
H311 Toxic 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.
H351 Suspected of causing cancer.
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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