

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

FORTE

Date of first edition: 10/28/2022

Safety Data Sheet dated 11/03/2026

version 12

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

1.1. Product identifier

Mixture identification:

Trade name: FORTE

Trade code: S100B0214 B1

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

Recommended use: Adhesives, sealants

Uses advised against: All uses other than recommended ones

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards: Contains biocidal product: C(M)IT/MIT (3:1); The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments. Possible skin exposure must be avoided. Protective gloves and work clothes are required. Avoid releasing product into the environment. When washing work equipment, water must not be dispersed in the soil or on surface water

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FORTE

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|-----------|---|---|---|---------------------|
| <0.036 % | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6 | Acute Tox. 2, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1 | |
| | | | Specific Concentration Limits: C ≥ 0.036%: Skin Sens. 1A H317 | |
| <0.0015 % | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS:55965-84-9 Index:613-167-00-5 | Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071 | |
| | | | Specific Concentration Limits: C ≥ 0.6%: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 C ≥ 0.6%: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 C ≥ 0.0015%: Skin Sens. 1A H317 | |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.
 Remove persons to safety.
 See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 Retain contaminated washing water and dispose it.
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
 Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.
 Do not eat or drink while working.
 See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:**7.2. Conditions for safe storage, including any incompatibilities**

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Community Occupational Exposure Limits (OEL)**

| | OEL Type | Country | Occupational Exposure Limit |
|-----------------------------|----------|-------------------------------------|--|
| Limestone CAS: 1317-65-3 | NATIONAL | BULGARIA | Long Term: 10 mg/m ³ Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | ESTONIA | Long Term: 10 mg/m ³ Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | ESTONIA | Long Term: 5 mg/m ³ Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | GREECE | Long Term: 10 mg/m ³ εισπν. Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | GREECE | Long Term: 5 mg/m ³ αναπν. Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | SPAIN | Long Term: 10 mg/m ³ (1) inhalable aerosol Source: LEP 2022 |
| | NATIONAL | HUNGARY | Long Term: 10 mg/m ³ N Source: 5/2020. (II. 6.) ITM rendelet |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND | Long Term: 10 mg/m ³ Inhalable fraction Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |

| | | |
|--|---|--|
| | NORTHERN IRELAND | |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 4 mg/m ³ Respirable fraction Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| NATIONAL | BELGIUM | Long Term: 10 mg/m ³ Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| NATIONAL | IRELAND | Long Term: 10 mg/m ³ Source: 2021 Code of Practice |
| NATIONAL | IRELAND | Long Term: 4 mg/m ³ Source: 2021 Code of Practice |
| NATIONAL | SWITZERLAND | Long Term: 3 mg/m ³ (1) respirable aerosol Source: suva.ch/valeurs-limites |
| Calcium carbonate CAS: 471-34-1 | NATIONAL HUNGARY | Long Term: 10 mg/m ³ inhalable aerosol Source: 5/2020. (II. 6.) ITM |
| | NATIONAL IRELAND | Long Term: 10 mg/m ³ Inhalable fraction Source: 2021 Code of Practice |
| | NATIONAL IRELAND | Long Term: 4 mg/m ³ Respirable fraction Source: 2021 Code of Practice |
| | NATIONAL UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m ³ inhalable aerosol Source: EH40/2005 Workplace exposure limits |
| | NATIONAL UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 4 mg/m ³ respirable aerosol Source: EH40/2005 Workplace exposure limits |
| | NATIONAL CROATIA | Long Term: 10 mg/m ³ U Source: NN 1/2021 |
| | NATIONAL CROATIA | Long Term: 4 mg/m ³ R Source: NN 1/2021 |
| | NATIONAL FRANCE | Long Term: 10 mg/m ³ Source: INRS outil65 |
| | NATIONAL LATVIA | Long Term: 6 mg/m ³ Source: KN325P1 |
| | NATIONAL POLAND | Long Term: 10 mg/m ³ 4) Source: Dz.U. 2018 poz. 1286 |
| | SUVA SWITZERLAND | Long Term: 3 mg/m ³ TWA mg/m ³ : (a), Formel / Formal, NIOSH Source: suva.ch/valeurs-limites |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 | NATIONAL GERMANY | Long Term: 0.2 mg/m ³ ; Short Term: 0.4 mg/m ³ DFG; Long term and short term: inhalable fraction Source: TRGS900 |
| | NATIONAL AUSTRIA | Long Term: 0.05 mg/m ³ MAK, Sh Source: GKV, BGBl. II Nr. 156/2021 |

ethyl acrylate
CAS: 140-88-5

| | | |
|----------|-------------------------------|---|
| SUVA | SWITZERLAN D | Long Term: 0.2 mg/m ³ ; Short Term: 0.4 mg/m ³ TWA mg/m ³ : (i), S, SSC, VRS Peau Yeux / OAW Haut Auge Source: suva.ch/valeurs-limites |
| ACGIH | | Long Term: 5 ppm (8h); Short Term: 15 ppm A4 - URT, eye, and GI irr, CNS impair, skin sens |
| NATIONAL | AUSTRIA | Long Term: 20 mg/m ³ - 5 ppm; Short Term: Ceiling - 40 mg/m ³ - 10 ppm 5(Mow), 8x, MAK, H, Sh Source: BGBl. II Nr. 156/2021 |
| NATIONAL | BULGARIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| NATIONAL | CYPRUS | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL | CZECHIA | Long Term: 20 mg/m ³ ; Short Term: Ceiling - 40 mg/m ³ I, S Source: Nařízení vlády č. 361-2007 Sb |
| NATIONAL | DENMARK | Long Term: 21 mg/m ³ - 5 ppm EHK Source: BEK nr 2203 af 29/11/2021 |
| NATIONAL | ESTONIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| NATIONAL | FINLAND | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm iho Source: HTP-ARVOT 2020 |
| NATIONAL | FRANCE | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: INRS outil65, article R. 4412-149 du Code du travail |
| NATIONAL | GREECE | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: ΦΕΚ 19/Α` 9.2.2012 |
| NATIONAL | HUNGARY | Long Term: 21 mg/m ³ ; Short Term: 42 mg/m ³ b, i, sz, EU4, N Source: 5/2020. (II. 6.) ITM rendelet |
| NATIONAL | LATVIA | Long Term: 10 mg/m ³ Source: KN325P1 |
| NATIONAL | LITHUANIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm J Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| NATIONAL | NETHERLAND S | Long Term: 21 mg/m ³ ; Short Term: 42 mg/m ³ Source: Arbeidsomstandighedenregeling - Lijst A |
| NATIONAL | NORWAY | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm H A K E S Source: FOR-2021-06-28-2248 |
| NATIONAL | POLAND | Long Term: 20 mg/m ³ ; Short Term: 40 mg/m ³ skóra Source: Dz.U. 2018 poz. 1286 |
| NATIONAL | PORTUGAL | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: Decreto-Lei n.º 1/2021 |
| NATIONAL | SLOVAKIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm S Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| NATIONAL | SWEDEN | Long Term: 20 mg/m ³ - 5 ppm; Short Term: 40 mg/m ³ - 10 ppm M, S Source: AFS 2021:3 |
| SUVA | SWITZERLAN D | Long Term: 10 mg/m ³ - 2.5 ppm; Short Term: 42 mg/m ³ - 10 ppm S, SSC, VRS Yeux / OAW Auge, INRS NIOSH Source: suva.ch/valeurs-limites |
| WEL-EH40 | UNITED KINGDOM OF GREAT | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |

BRITAIN AND
NORTHERN
IRELAND

| | | |
|----------|----------------|--|
| NATIONAL | BELGIUM | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| NATIONAL | CROATIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm koža, alergen koža Source: 2009/161/EU |
| NATIONAL | GERMANY | Long Term: 8.3 mg/m ³ - 2 ppm DFG, EU, H, Y, Sh, 2(I) Source: TRGS 900 |
| NATIONAL | IRELAND | Long Term: 20 mg/m ³ - 5 ppm; Short Term: 41 mg/m ³ - 10 ppm IOELV, Sk, Sens Source: 2021 Code of Practice |
| NATIONAL | ITALY | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: D.lgs. 81/2008, Allegato XXXVIII |
| NATIONAL | LUXEMBOUR G | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: Mémorial A n.226 du 22 mars 2021 |
| NATIONAL | MALTA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Source: S.L.424.24 |
| NATIONAL | ROMANIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm Dir. 2009/161 Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| NATIONAL | SLOVENIA | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm K, Y, EU3 Source: UL št. 72, 11. 5. 2021 |
| NATIONAL | SPAIN | Long Term: 21 mg/m ³ - 5 ppm; Short Term: 42 mg/m ³ - 10 ppm VLI, Sen Source: LEP 2022 |
| EU | | Long Term: 21 mg/m ³ - 5 ppm (8h); Short Term: 42 mg/m ³ - 10 ppm |

Predicted No Effect Concentration (PNEC) values

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one
CAS: 2634-33-5

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.1 µg/l
Exposure Route: Marine water; PNEC Limit: 403 ng/L
Exposure Route: Intermittent releases (marine water); PNEC Limit: 110 ng/L
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1.03 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 49.9 µg/kg
Exposure Route: Marine water sediments; PNEC Limit: 4.99 µg/kg
Exposure Route: Soil; PNEC Limit: 3 mg/kg
Exposure Route: Fresh Water; PNEC Limit: 3.39 µg/l

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
CAS: 55965-84-9

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.39 µg/l
Exposure Route: Marine water; PNEC Limit: 3.39 µg/l
Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39 µg/l
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 230 µg/l
Exposure Route: Freshwater sediments; PNEC Limit: 27 µg/l
Exposure Route: Marine water sediments; PNEC Limit: 27 µg/l
Exposure Route: Soil; PNEC Limit: 10 µg/l

Derived No Effect Level (DNEL) values

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin- Worker Professional: 6.81 mg/m³; Consumer: 1.2 mg/m³

3-one
CAS: 2634-33-5

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 966 µg/kg; Consumer: 345 µg/kg

reaction mass of 5-
chloro-2-methyl-2H-
isothiazol-3-one and 2-
methyl-2H-isothiazol-3-
one (3:1)
CAS: 55965-84-9

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 20 µg/m³; Consumer: 20 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 40 µg/m³; Consumer: 20 µg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 90 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 110 µg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Nitrile rubber .

Respiratory protection:

N.A.

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Beige

Odour: Light

Odour threshold: N.A.

pH: =6.00 (OECD 122)

Kinematic viscosity: N.A. (Not determined, as it is not required for CLP classification)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: Not Applicable

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 1.35 g/cm³

Solubility in water: Soluble

Solubility in oil: N.A. (Not determined, as it is not required for CLP classification)

Partition coefficient n-octanol/water (log value): N.A. (Not applicable to mixtures)

Auto-ignition temperature: N.A. (Not applicable as the mixture is not flammable)

Decomposition temperature: N.A. (Not applicable, as the mixture is not self-reactive)

Flammability: ; Not applicable as the mixture is not flammable

Volatile Organic compounds - VOCs = 0.00 % ; 0.01 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Viscosity: 35,000.00 cPo

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

| | | |
|--------------------------------------|--|--|
| a) acute toxicity | Not classified | |
| | Based on available data, the classification criteria are not met | |
| b) skin corrosion/irritation | Not classified | |
| | Based on available data, the classification criteria are not met | |
| c) serious eye damage/irritation | Not classified | |
| | Based on available data, the classification criteria are not met | |
| d) respiratory or skin sensitisation | Not classified | |
| | Based on available data, the classification criteria are not met | |
| e) germ cell mutagenicity | Not classified | |
| | Based on available data, the classification criteria are not met | |
| f) carcinogenicity | Not classified | |
| | Based on available data, the classification criteria are not met | |
| g) reproductive toxicity | Not classified | |
| | Based on available data, the classification criteria are not met | |
| h) STOT-single exposure | Not classified | |
| | Based on available data, the classification criteria are not met | |
| i) STOT-repeated exposure | Not classified | |
| | Based on available data, the classification criteria are not met | |
| j) aspiration hazard | Not classified | |
| | Based on available data, the classification criteria are not met | |

Toxicological information on main components of the mixture:

| | | | |
|---|--------------------------------------|---|---------------------|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | a) acute toxicity | LD50 Oral Rat = 670 mg/kg | |
| | | LD50 Skin Rat > 2000 mg/kg | |
| | b) skin corrosion/irritation | Skin Irritant Rabbit Negative | |
| | c) serious eye damage/irritation | Eye Corrosive Positive | irreversible damage |
| | d) respiratory or skin sensitisation | Skin Sensitization Guinea pig Positive | |
| | f) carcinogenicity | Genotoxicity Rat Negative | Oral route |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 112 mg/kg | |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | a) acute toxicity | LD50 Oral Rat = 69 mg/kg | |
| | | LD50 Skin Rabbit = 141 mg/kg | |
| | | LC50 Inhalation Rat = 0.33 mg/l 4h | |

| | |
|--------------------------------------|--|
| b) skin corrosion/irritation | Skin Irritant Rabbit Positive |
| c) serious eye damage/irritation | Eye Corrosive Rabbit Positive |
| d) respiratory or skin sensitisation | Skin Sensitization Positive |
| f) carcinogenicity | Genotoxicity Negative Carcinogenicity Skin Negative |
| g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 22.7 mg/kg |

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

| Component | Ident. Numb. | Ecotox Data |
|---|---|--|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6 | a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 2.15 mg/L 96h OECD Guideline 203 a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> = 2.9 mg/L 48h OECD Guideline 202 a) Aquatic acute toxicity : EC50 Algae green alga <i>Selenastrum capricornutum</i> freshwater algae = 110 µg/L OECD Guideline 201 d) Terrestrial toxicity : EC50 Worm <i>Eisenia fetida</i> > 410.6 mg/kg OECD Guideline 207 - Duration 14d d) Terrestrial toxicity : EC10 soil microorganisms = 263.7 mg/kg - long term a) Aquatic acute toxicity : NOEC Sludge activated sludge 10.3 mg/L 3h OECD Guideline 209 e) Plant toxicity : LC50 <i>Triticum aestivum</i> = 200 mg/kg OECD Guideline 208 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS: 55965-84-9 - INDEX: 613-167-00-5 | a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 0.19 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test) b) Aquatic chronic toxicity : NOEC Fish <i>Danio rerio</i> = 0.02 mg/L „OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days a) Aquatic acute toxicity : LC50 <i>Daphnia magna</i> = 0.16 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test) b) Aquatic chronic toxicity : NOEC <i>Daphnia magna</i> = 0.1 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) - 21days a) Aquatic acute toxicity : EC50 Algae <i>Skeletonema costatum</i> = 0 mg/L 96h „OECD Guideline 201 (Alga, Growth Inhibition Test) a) Aquatic acute toxicity : EC50 Sludge activated sludge = 4.5 mg/L 3h „OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) d) Terrestrial toxicity : LC50 Worm <i>Eisenia fetida</i> = 613 mg/kg „OECD Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days e) Plant toxicity : NOEC <i>Trifolium pratense</i> , <i>Oryza sativa</i> , <i>Brassica napus</i> = 1000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days |

12.2. Persistence and degradability

| Component | Persistence/Degradability: | Test | Notes: |
|---|----------------------------|----------------|---------------------|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | Non-readily biodegradable | CO2 production | OECD Guideline 301C |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Non-readily biodegradable | | |

12.3. Bioaccumulative potential

| Component | Bioaccumulation | Test | Value | Notes: |
|---|-----------------|-------------------------------|--------|--------|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | Bioaccumulative | BCF - Bioconcentration factor | 6.620 | |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Bioaccumulative | BCF - Bioconcentration factor | 54.000 | ≤ 54 |

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration $\geq 0.1\%$

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as non-hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 40, 75

Provisions related to directive EU 2012/18 (Seveso III):

None

Explosives precursors – Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

NWG: Not hazardous for water

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration $\geq 0.1\%$

REGULATION (EU) No 528/2012

The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments.

Substances included in Regulation (EU) n. 528/2012 (concerning the making available on the market and use of biocidal products):

Nomenclature IUPAC: Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Nomenclature BPR: C(M)IT/MIT (3:1)

CAS number: 55965-84-9

Product-type 6: Preservatives for products during storage

Assessment status: Approved

Commission Implementing Regulation (EU) 2016/131

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

| Code | Description |
|-------------|--------------------|
|-------------|--------------------|

| | | | |
|------|------------|-----------------|-------|
| Date | 11/03/2026 | Production Name | FORTE |
|------|------------|-----------------|-------|

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| | |
|------|---|
| H302 | Harmful if swallowed. |
| 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. |

| Code | Hazard class and hazard category | Description |
|-------------|---|--|
| 3.1/2/Inhal | Acute Tox. 2 | Acute toxicity (inhalation), Category 2 |
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 |
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/1 | Eye Dam. 1 | Serious eye damage, Category 1 |
| 3.4.2/1A | Skin Sens. 1A | Skin Sensitisation, Category 1A |
| 4.1/A1 | Aquatic Acute 1 | Acute aquatic hazard, category 1 |
| 4.1/C1 | Aquatic Chronic 1 | Chronic (long term) aquatic hazard, category 1 |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information