

FirePro® HES

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Previous Version: N/A

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product form: Mixture.
Trade name: FirePro® HES.
Product group: Trade product.

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

1.2.1 Relevant identified uses

Main use category: Professional use.
Use of substance/mixture: Adhesives and sealants.

1.3 Details of the supplier of the safety data sheet

Manufacturer:
ROCKWOOL Ltd, Pencoed, Bridgend, CF35 6NY.
Tel: +44 (0) 1656 862621
Email: sds@rockwool.com

Distributor:
ROCKWOOL A/S, Hovedgaden 501, DK-2640 Hedehusene, Denmark
Tel: +45 4656 1616
info@rockwool.dk

1.4 Telephone numbers

No additional information available.

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified.

Adverse physicochemical, human health and environmental effects:

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements:

EUH208 - Contains reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (55965-84-9), 1,2-benzisothiazol-3(2H)-one (2634-33-5). May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3 Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

Section 3. Composition / information on ingredients

3.2 Mixtures

Aluminium hydroxide substance with national workplace exposure limit(s) (DK, GB, IE):

Product identifier: CAS-No.: 21645-51-2
EC-No.: 244-492-7

Percentage: < 20

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified.

Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (Na₂O+K₂O+CaO+ MgO+BaO) content greater than 18% by weight and fulfilling one of the CLP Regulation Annex VI Note Q conditions substance with national workplace exposure limit(s) (GB):

Product identifier: EC-No.: 926-099-9

Percentage: 5 - 10

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified.

Pentaerythritol substance with national workplace exposure limit(s) (BE, ES, FI, FR, GB, IE, SE):

Product identifier: CAS-No.: 115-77-5
EC-No.: 204-104-9

Percentage: 5 - 10

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified.

Glass Frit substance with national workplace exposure limit(s) (GB):

Product identifier: CAS-No.: 65997-18-4
EC-No.: 266-047-6

Percentage: 1 - 5

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified.

1,2-benzisothiazol-3(2H)-one:

Product identifier: CAS-No.: 2634-33-5
EC-No.: 220-120-9
EC Index-No.: 613-088-00-6

Percentage: < 0.1

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.21 mg/l) Acute Tox. 4 (Oral), H302 (ATE=450 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one:

Product identifier: CAS-No.: 55965-84-9
EC Index-No.: 613-167-00-5

Percentage: < 0.1

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits

1,2-benzisothiazol-3(2H)-one:

Product identifier: CAS-No.: 2634-33-5

EC-No.: 220-120-9

EC Index-No.: 613-088-00-6

Percentage: (0.036 ≤ C ≤ 100) Skin Sens. 1A; H317

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one:

Product identifier: CAS-No.: 55965-84-9

EC Index-No.: 613-167-00-5

Percentage: (0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317

(0.06 ≤ C < 0.6) Skin Irrit. 2, H315

(0.06 ≤ C < 0.6) Eye Irrit. 2, H319

(0.6 ≤ C ≤ 100) Skin Corr. 1C, H314

(0.6 ≤ C ≤ 100) Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16.

Section 4. First-aid measures

4.1 Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center or doctor if you feel unwell.

First-aid measures for first aider:

First aid workers will be equipped with suitable personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation:

May cause minor irritation to the respiratory tract and to other mucous membranes.

Symptoms/effects after skin contact: Repeated or prolonged contact may cause slight irritation to the skin.

Symptoms/effects after eye contact: May cause slight irritation to eyes.

Symptoms/effects after ingestion:

Possible irritation of mucous membranes and digestive tract, nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard: No fire hazard.

Explosion hazard: No direct explosion hazard.

Hazardous decomposition products in case of fire:

Carbon dioxide. Carbon monoxide. Ammonia. Sulphur oxides. nitrogen dioxide.

5.3 Advice for firefighters

Firefighting instructions:

Fight fire from safe distance and protected location.

Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting:

Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus. Complete protective clothing.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures:

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

6.1.1 For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area.

6.1.2 For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/personal protection."

Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment:

Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up:

Take up liquid spill into absorbent material. Shovel or sweep up and put in a closed container for disposal.

Other information: Dispose of materials or solid residues at an authorised site.

6.4 Reference to other sections

For further information refer to section 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Additional hazards when processed:

Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling:

Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Keep in a cool, well-ventilated place away from heat.

Storage conditions: Keep cool. Protect from sunlight.

Incompatible products: Oxidizing agent. Strong acids.

Packaging materials: Store always product in container of same material as original container.

7.3 Specific end use(s)

No additional information available.

Section 8. Exposure controls / personal protection

8.1 Control parameters

National occupational exposure and biological limit values

Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (Na₂O+K₂O+CaO+ MgO+BaO) content greater than 18% by weight and fulfilling one of the CLP Regulation Annex VI Note Q conditions:

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA): 10 mg/m³ total inhalable dust
4 mg/m³ total respirable dust

Aluminium hydroxide (21645-51-2):

Ireland - Occupational Exposure Limits

OEL TWA: 10 mg/m³ inhalable fraction
4 mg/m³ respirable fraction

United Kingdom - Occupational Exposure Limits

Local name: Dust

WEL TWA (OEL TWA): 10 mg/m³ inhalable fraction
4 mg/m³ respirable fraction

Regulatory reference: EH40/2005 (Fourth edition, 2020). HSE

Pentaerythritol (115-77-5):

Ireland - Occupational Exposure Limits

OEL TWA: 10 mg/m³ inhalable fraction
4 mg/m³ respirable fraction

United Kingdom - Occupational Exposure Limits

Local name: Pentaerythritol

WEL TWA (OEL TWA): 10 mg/m³ inhalable dust
4 mg/m³ respirable dust

WEL STEL (OEL STEL): 20 mg/m³ inhalable dust

Regulatory reference: EH40/2005 (Fourth edition, 2020). HSE

Glass Frit (65997-18-4):

United Kingdom - Occupational Exposure Limits

Local name: Dust

WEL TWA (OEL TWA): 10 mg/m³ inhalable fraction
4 mg/m³ respirable fraction

Regulatory reference: EH40/2005 (Fourth edition, 2020). HSE

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal Protective Equipment: Wear recommended personal protective equipment.

Hand protection: Disposable gloves. Standard: EN 374.

Eye protection: Safety goggles. Standard: EN 166.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection:

No respiratory protection needed under normal use conditions.

If dust are formed: Wear appropriate mask. Dust mask. Type P3.

Personal protective equipment symbol(s):



Environmental exposure controls: Avoid release to the environment.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid.

Appearance: Very viscous to pasty.

Colour: Grey. Black.

Odour: Acrylic-like.

Odour threshold: Not available.

pH: $\geq 5 - \leq 9$

pH solution: Not available

Melting point: Not applicable.

Freezing point: Not available.

Boiling point: Not available.

Flammability: Non flammable.

Lower explosion limit: Not available.

Upper explosion limit: Not available.

Flash point: Not available.

Explosive limits: Not available.

Vapour pressure: Not available.

Vapour pressure at 50°C: Not available.

Relative vapour density at 20°C: Not applicable.

Relative density: Not available.

Density: $\geq 1.35 - \leq 1.45$

Solubility: Not available.

Partition coefficient n-octanol/water (Log Kow): Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: ≈ 150 °C.

Viscosity, kinematic: Not applicable.

Explosive properties: Not available

9.2 Other information

Particle characteristics: Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials

Oxidizing agent. Strong acids.

10.6 Hazardous decomposition products

Thermal decomposition generates:

Carbon dioxide. Carbon monoxide. Ammonia. Sulphur oxides. nitrogen dioxide.

Section 11. Toxicological information

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

Acute toxicity (oral): Not classified (Based on available data, the classification criteria are not met).

Acute toxicity (dermal): Not classified (Based on available data, the classification criteria are not met).

Acute toxicity (inhalation): Not classified (Based on available data, the classification criteria are not met).

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (55965-84-9):

LD50 dermal rat:

> 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Aluminium hydroxide (21645-51-2):

LD50 oral rat:

> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Pentaerythritol (115-77-5):**LD50 oral rat:**

> 5110 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:

LD50 dermal rabbit:

> 10000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

LC50 Inhalation - Rat:

> 5.15 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity),
Guideline: EU Method B.2 (Acute Toxicity (Inhalation))

Glass Frit (65997-18-4):**LD50 dermal rat:**

> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

LD50 dermal rabbit: > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:

1,2-benzisothiazol-3(2H)-one (2634-33-5):**LD50 dermal rat:**

> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Not classified (Based on available data, the classification criteria are not met) pH: $\geq 5 - \leq 9$

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (55965-84-9):

pH: 3.43 Temp: 20 °C Concentration: 10 g/L

Serious eye damage/irritation: Not classified.* pH: $\geq 5 - \leq 9$

Respiratory or skin sensitisation: Not classified.*

Germ cell mutagenicity: Not classified.*

Carcinogenicity: Not classified.*

Reproductive toxicity: Not classified.*

**Based on available data, the classification criteria are not met.*

Aluminium hydroxide (21645-51-2):**NOAEL (animal/male, F0/P):**

1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422

(Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

1,2-benzisothiazol-3(2H)-one (2634-33-5):**NOAEL (animal/female, F0/P):**

112 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800
(Reproduction and Fertility Effects)

NOAEL (animal/female, F1):

56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800
(Reproduction and Fertility Effects)

STOT-single exposure: Not classified.*

STOT-repeated exposure: Not classified.*

**Based on available data, the classification criteria are not met.*

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (55965-84-9):

LOAEL (dermal, rat/rabbit, 90 days):

0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3
(Subchronic Dermal Toxicity 90 Days)

Aluminium hydroxide (21645-51-2):**NOAEC (inhalation, rat, dust/mist/fume, 90 days):**

0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

NOAEL (subchronic, oral, animal/male, 90 days):1034 mg/kg bodyweight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409
(Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)**NOAEL (subchronic, oral, animal/female, 90 days):**1087 mg/kg bodyweight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409
(Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)

Pentaerythritol (115-77-5):**NOAEL (oral, rat, 90 days):**1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408
(Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Glass Frit (65997-18-4):**NOAEL (oral, rat, 90 days):**300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408
(Repeated Dose 90-Day Oral Toxicity Study in Rodents)**Aspiration hazard:** Not classified (Based on available data, the classification criteria are not met).**11.2 Information on other hazards**

No additional information available.

Section 12. Ecological information

12.1 Toxicity

Ecology - general:

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute):

Not classified (Based on available data, the classification criteria are not met).

Hazardous to the aquatic environment, long-term (chronic):

Not classified (Based on available data, the classification criteria are not met).

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (55965-84-9):

LC50 - Fish [1]: 0.19 mg/l Test organisms (species): *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)

LC50 - Fish [2]: 0.28 mg/l Test organisms (species): *Lepomis macrochirus*

EC50 - Crustacea [1]: 0.16 mg/l Test organisms (species): *Daphnia magna*

NOEC (chronic): 0.1 mg/l Test organisms (species): *Daphnia magna* Duration: '21 d'

NOEC chronic fish:

0.098 mg/l Test organisms (species): *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*) Duration: '28 d'

Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (Na₂O+K₂O+CaO+ MgO+BaO) content greater than 18% by weight and fulfilling one of the CLP Regulation Annex VI Note Q conditions :

LC50 - Fish [1]: > 1000 mg/l Test organisms (species): *Danio rerio* (previous name: *Brachydanio rerio*)

LOEC (chronic): > 1000 mg/l Test organisms (species): *Daphnia magna* Duration: '3 d'

NOEC (chronic): > 1000 mg/l Test organisms (species): *Daphnia magna* Duration: '3 d'

Pentaerythritol (115-77-5):

LC50 - Fish [1]: > 100 mg/l Test organisms (species): *Oryzias latipes*

EC50 72h - Algae [1]:

1000 mg/l Test organisms (species): *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)

NOEC (chronic): 1000 mg/l Test organisms (species): *Daphnia magna* Duration: '21 d'

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

LC50 - Fish [1]: ≈ 16.7 mg/l Test organisms (species): *Cyprinodon variegatus*

LC50 - Fish [2]: 2.15 mg/l Test organisms (species): *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)

EC50 - Crustacea [1]: 2.94 mg/l Test organisms (species): *Daphnia magna*

EC50 - Crustacea [2]: 2.9 mg/l Test organisms (species): *Daphnia magna*

12.2 Persistence and degradability

FirePro® HES:

Persistence and degradability: Not rapidly degradable.

reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (55965-84-9):

Persistence and degradability: Not rapidly degradable.

Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (Na₂O+K₂O+CaO+ MgO+BaO) content greater than 18% by weight and fulfilling one of the CLP Regulation Annex VI Note Q conditions:

Persistence and degradability: Not rapidly degradable.

Aluminium hydroxide (21645-51-2):

Persistence and degradability: Not rapidly degradable.

Pentaerythritol (115-77-5):

Persistence and degradability: Not rapidly degradable.

Glass Frit (65997-18-4):

Persistence and degradability: Not rapidly degradable.

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

Persistence and degradability: Not rapidly degradable.

12.3 Bio-accumulative potential

No additional information available.

12.4 Mobility in soil

FirePro® HES:

Liquid product: Expected to be highly mobile in soil.

Additional information: Fully cured. Not considered mobile.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

No additional information available.

12.7 Endocrine disrupting properties

No additional information available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Regional waste regulation: Disposal must be done according to official regulations.

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations: Disposal must be done according to official regulations.

Additional information: Do not re-use empty containers.

European List of Waste (LoW, EC 2000/532):

08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

Section 14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1 UN number or ID number

ADR / IMDG / IATA / ADN / RID: Not applicable.

14.2 UN proper shipping name

ADR / IMDG / IATA / ADN / RID: Not applicable.

14.3 Transport hazard class(es)

ADR / IMDG / IATA / ADN / RID: Not applicable.

14.4 Packing group

ADR / IMDG / IATA / ADN / RID: Not applicable.

14.5 Environmental hazards

ADR / IMDG / IATA / ADN / RID: Not applicable.

No supplementary information available.

14.6 Special precautions for user

Overland transport: Not applicable.

Transport by sea: Not applicable.

Air transport: Not applicable.

Inland waterway transport: Not applicable.

Rail transport: Not applicable.

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

15.1.1 EU-Regulations:

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions).

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List).

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List.

PIC regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer).

Dual-Use Regulation (428/2009)

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

Section 16. Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH071	Corrosive to the respiratory tract
EUH208	Contains reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (55965-84-9), 1,2-benzisothiazol-3(2H)-one (2634-33-5). May produce an allergic reaction
EUH210	Safety data sheet available on request
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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
H319	Causes serious eye irritation
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A

The classification complies with: ATP 12 .

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Legal disclaimer

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