# Safety data sheet
*according to UK REACH*



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

**Product identifier**

**Trade name:**

***KREM DO INIEKCJI 901***

Cream based on siloxanes for injection in walls with high humidity

**Unique Formula Identifier (UFI-Code):**
CKM1-90CE-200C-FUUD

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

**Life cycle stages**
C/PW Consumer use / Widespread use by professional workers

**Sector of Use**
SU19 Building and construction work

**Process category**
PROC19 Manual activities involving hand contact

**Environmental release category**
ERC10a / ERC11a Widespread use of articles with low release

**Article category**
AC0 Other

**Application of the substance / the preparation**
Horicontal barrier coat for injection procedure - Product for an industrial, technical and private use for processing on buildings. For all other uses is advised against/ not recommended.

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

KREISEL - Technika Budowlana Sp. z o.o.
ul. Szarych Szeregów 23
60-462 Poznań
Poland

Tel. +48 61 846 79 00
Fax +48 61 846 79 09
sekretariat@kreisel.pl
www.kreisel.pl

**Further information obtainable from:**
Bartosz Polaczyk - Tel.: +48 510 022 908, +48 61 84 67 966, bartosz.polaczyk@kreisel.pl
On working days 8 a.m. - 4 p.m.

**Emergency telephone number**

National poisons information centre: +44/(0)171 - 635 9191
National Health Service: 111
European emergency call: 112



(Contd. on page 2)

**Safety data sheet**
*according to UK REACH*

KREISEL

Printing date 09.12.2024 Version number: RO/ 4 (replaces version 3) Revision: 28.10.2024

***KREM DO INIEKCJI 901***

(Contd. of page 1)

## SECTION 2: Hazards identification

**Classification of the substance or mixture**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

**Label elements**

**GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

**Hazard pictograms**

GHS07

**Signal word**

Warning

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P501 | Dispose of contents/container in accordance with local/regional/national/ international regulations. |

**Other hazards**

No further relevant information available.

**Results of PBT and vPvB assessment**

**PBT:**

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

**vPvB:**

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

**Chemical characterization: Substances**

This product is a mixture.

**Mixtures**

**Description:**

Mixture of substances listed below with nonhazardous additions

(Contd. on page 3)

(Contd. of page 2)

| **Dangerous components:** | | |
|---|---|---|
| REACH: [3] | Silicon compound (Ref.: 72243-044810, Germany)<br>Skin Irrit. 2, H315 | ≥ 20% |
| CAS: 78330-21-9<br>EC number: 616-609-5 | Alcohols, C11-14-iso-, C13-rich, ethoxylated<br>Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 3, H412 | ≥ 1 - < 2.5% |
| CAS: 2682-20-4<br>EINECS: 220-239-6<br>REACH: 01-2120764690-50 | 2-Methyl-2H-isothiazol-3-one<br>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Skin Sens. 1A, H317<br>Specific concentration limit:<br>Skin Sens. 1; H317:C ≥ 0.0015 % | ≥ 0.0015 - < 0.01% |

**Additional information:**
For the wording of the listed hazard phrases refer to section 16.

[3] The identity of this substance or substances is a trade secret and was not communicated by the supplier.

## *SECTION 4: First aid measures*

**Description of first aid measures**

First aid

**General information:**
For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

**After inhalation:**
Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**
Immediately wash with water and soap and rinse thoroughly. Immediately remove all soiled and contaminated clothing. Wash contaminated clothes before reuse. Clean contamionated shoes before reuse. If skin irritation continues, consult a doctor.

**After eye contact:**
Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

**After swallowing:**
Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control center.

**Most important symptoms and effects, both acute and delayed**
Symptoms and effects are described in section 2 and 11.

**Indication of any immediate medical attention and special treatment needed**
If a physician is to be consulted, as per possibillity he should be presented this safety data sheet.



(Contd. on page 4)

**Safety data sheet**
**according to UK REACH**



***KREM DO INIEKCJI 901***

(Contd. of page 3)

## SECTION 5: Firefighting measures

**Extinguishing media**

**Suitable extinguishing agents:**
The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and fire fighting are therefore adjusted to the surrounding fire.

**Special hazards arising from the substance or mixture**
This product is neither explosive nor flammable, and non-oxidizing with other materials. Particular danger of slipping on leaked/spilled product.

**Advice for firefighters**
No special measures required. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Avoid inhalation, eye and skin contact. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

**Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

**Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7: Handling and storage

**Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning yes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

**Information about fire - and explosion protection:**
No special measures required.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**
Keep out of reach of children. Store in cool, dry place in tightly closed receptacles.

**Information about storage in one common storage facility:**
Keep away from foodstuffs, beverages and feed.

**Further information about storage conditions:**
Protect from frost. Protect from heat and direct sunlight.

**Miniumum storage life:**
Minimum storage life (+5°C up to 25°C): See indication on package.

(Contd. on page 5)

**Safety data sheet**
*according to UK REACH*

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***KREM DO INIEKCJI 901***

(Contd. of page 4)

**Storage class:** 12

**Specific end use(s)**
No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

| **DNELs** | | |
|---|---|---|
| **2682-20-4 2-Methyl-2H-isothiazol-3-one** | | |
| Oral | Long term exposure | 0.027 mg/kg bw/d (Consumer) |
| | Short term exposure | 0.053 mg/kg bw/d (Consumer) |
| Inhalative | Local - Long term exposure | 0.021 mg/m³ (Consumer) |
| | | 0.021 mg/m³ (Employee) |
| | Local - Short term exposure | 0.34 mg/m³ (Consumer) |
| | | 0.34 mg/m³ (Employee) |

| **PNECs** | |
|---|---|
| **2682-20-4 2-Methyl-2H-isothiazol-3-one** | |
| Freshwater | 0.00339 mg/l (not specified) |
| Soil | 0.047 mg/kg (not specified) |
| Sediments (Marine water) | 0.00339 mg/kg (not specified) |
| Sewage plant | 0.23 mg/l (not specified) |

**Ingredients with biological limit values:**
Void

**Additional information:**
The lists valid during the making were used as basis.

**Information about design of technical facilities**
No further data; see item 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately and thoroughly clean it before using it again. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Ensure that washing facilities are available at the work place.

**Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed (FFP2 according to EN 149)

(Contd. on page 6)

(Contd. of page 5)

**Hand protection:**

Hand protection: Chemical resistant protective gloves according EN ISO 374

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum.

**Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact gloves made of the following materials are suitable:**
Polychloroprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
Nitrile rubber (material thickness ≥ 0.35 mm ; breakthrough time ≥ 480 min.)
Butyl rubber (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
Fluororubber (material thickness ≥ 0.4 mm ; breakthrough time ≥ 480 min.)
Neoprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)

**Not suitable are gloves made of the following materials:**
Non-liquid-tight gloves made of fabric, leather or similar materials.

**Eye/face protection:**

In case of splash risk use tightly fitting safety goggles according to EN 166.

**Body protection:**

Protective work clothing

**Risk management measures:**
An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

**Environmental exposure controls**
Avoid release in the environment. Use the surplus or dispose it of properly.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**
**General Information**

| | |
|---|---|
| **Physical state** | Fluid |
| **Appearance:** | |
| **Form:** | Pasty |

(Contd. on page 7)

(Contd. of page 6)

| | |
|---|---|
| **Colour:** | White |
| **Odour:** | Alcohol-like |
| **Odour threshold:** | Not safety relevant |
| **pH at 20 °C (68 °F)** | 6 - 8 |
| **Change in condition** | |
| **Melting point/freezing point:** | Undetermined |
| **Boiling point or initial boiling point and boiling range** | > 95 °C (> 203 °F) |
| **Flammability** | |
| **Flash point:** | Not applicable |
| **Auto-ignition temperature:** | > 300 °C (> 572 °F) |
| **Decomposition temperature:** | > 100 °C (> 212 °F) |
| **Oxidising properties:** | None |
| **Explosive properties:** | Product does not present an explosion hazard. |
| **Ignition temperature:** | Product is not selfigniting. |
| **Vapour pressure at 20 °C (68 °F):** | 23 hPa (17.3 mm Hg) |
| **Density and/or relative density** | |
| **Density at 20 °C (68 °F):** | 0.9 g/cm³ (7.51 lbs/gal) |
| **Particle size** | |
| **Viscosity:** | |
| **Dynamic at 20 °C (68 °F):** | 350 - 750 mPas |
| **Solubility** | |
| **Water:** | Not miscible or difficult to mix |
| **Partition coefficient n-octanol/water (log value)** | Not determined |

**Other information**

| | |
|---|---|
| **Information with regard to physical hazard classes** | |
| **Explosives** | Void |
| **Flammable gases** | Void |
| **Aerosols** | Void |
| **Oxidising gases** | Void |
| **Gases under pressure** | Void |
| **Flammable liquids** | Void |
| **Flammable solids** | Void |
| **Self-reactive substances and mixtures** | Void |
| **Pyrophoric liquids** | Void |
| **Pyrophoric solids** | Void |
| **Self-heating substances and mixtures** | Void |
| **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| **Oxidising liquids** | Void |
| **Oxidising solids** | Void |
| **Organic peroxides** | Void |
| **Corrosive to metals** | Void |
| **Desensitised explosives** | Void |

## *SECTION 10: Stability and reactivity*

**Reactivity**
No dangerous reactions known (see 10.5).

**Chemical stability:**
The product is stable as long as it is stored properly and dry.

(Contd. on page 8)

(Contd. of page 7)

**Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

**Possibility of hazardous reactions**
Reacts with acids, alkalis and oxidising agents.

**Conditions to avoid**
No further relevant information available.

**Incompatible materials**
No further relevant information available.

**Hazardous decomposition products**
No dangerous decomposition products known.

**Miniumum storage life:**

**Additional information:**
No further relevant information available.

## SECTION 11: Toxicological information

**Information on hazard classes as defined in Regulation (EC) No 1272/2008**
The product was not investigated. The statement is derivated from the properties of the single components.

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

| **LD/LC50 values relevant for classification:** | | |
|---|---|---|
| Oral | $LD/LC_{50}$ | > 2,000 mg/kg (Rat) |
| Dermal | $LD_{50}$ | > 2,000 mg/kg (Rat) (OECD 402) |
| Inhalative | $LD/LC_{50}$ (4h) | > 5.2 mg/l (Rat) |

| **Silicon compound (Ref.: 72243-044810, Germany)** | | |
|---|---|---|
| Oral | $LD_{50}$ | > 5,110 mg/kg (Rat) |
| Dermal | $LD_{50}$ | 6,730 mg/kg (Rat) |
| **78330-21-9 Alcohols, C11-14-iso-, C13-rich, ethoxylated** | | |
| Oral | $LD_{50}$ | 500 - 2,000 mg/kg (Rat) |
| Dermal | $LD_{50}$ | > 2,000 mg/kg (Rat) |
| **2682-20-4 2-Methyl-2H-isothiazol-3-one** | | |
| Oral | $LD_{50}$ | 232 - 249 mg/kg (Rat) (OECD 401) |
| Dermal | $LD_{50}$ | 242 mg/kg (Rat) (OECD 402) |
| Inhalative | $LC_{50}$ (4h) | 0.05 mg/l (ATE) |
| | $LC_{50}$ (4h) | 0.11 mg/l (Rat) (OECD 403) |

| **Other information (about experimental toxicology):** | | |
|---|---|---|
| Irritation of skin | OECD 404 (skin) | (Rabbit) (analogy conclusion) |
| Irritation of eyes | OECD 405 (eye) | (Rabbit) (analogy conclusion) |
| Sensitisation | OECD 406 (sensitization) | (Guinea pig) (analogy conclusion) |

| **2682-20-4 2-Methyl-2H-isothiazol-3-one** | | |
|---|---|---|
| Oral | OECD 408 (Repeated dose oral toxicity 90d) | 19 mg/kg bw/day (Rat) |
| Irritation of skin | OECD 404 (skin) | (Rabbit)<br>corrosive |

(Contd. on page 9)

(Contd. of page 8)

| | | |
|---|---|---|
| Sensitisation | OECD 406 (sensitization) | (Guinea pig) sensitizing |

**Primary irritant effect:**

**On the skin:**
Causes skin irritation.

**On the eye:**
Causes serious eye irritation.

**Practical experience**
No further relevant information available.

**General comments**
No further relevant information available.

**Information on other hazards**

| **Endocrine disrupting properties** |
|---|
| None of the ingredients is listed. |

## *SECTION 12: Ecological information*

**Toxicity**
The product was not investigated. The statement is derivated from the properties of the single components.

| **Aquatic toxicity:** | |
|---|---|
| **Silicon compound (Ref.: 72243-044810, Germany)** | |
| $LC_0$ | 0.0022 mg/l (Rat) |
| **2682-20-4 2-Methyl-2H-isothiazol-3-one** | |
| $LC_{50}$ (96h Marine water) | 2.98 mg/l (Water flea - daphnia magma) |
| $LC_{50}$ (96h Freshwater) | 0.934 mg/l (Water flea - daphnia magma) |
| $LC_{50}$ | 4.77 mg/l (Fish) (OECD 203) |
| $EC_{10}$ | 0.044 mg/l (Water flea - daphnia magma) (OECD 211) |
| | 4.93 mg/l (Fish) |
| $EC_{50}$ | 41 mg/l (Activated sewage sludge) (OECD 209) |
| | 0.103 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201) |
| $EC_{50}$ (16h) | 2.3 mg/l (Pseudomonas putida) |

**Persistence and degradability**
No further relevant information available.

| **Degree of elimination:** | |
|---|---|
| **78330-21-9 Alcohols, C11-14-iso-, C13-rich, ethoxylated** | |
| Biodegradation (28d) | 67 % (not specified) (OECD 301B) |

**Bioaccumulative potential**
No further relevant information available.

**Mobility in soil**
No further relevant information available.

**Results of PBT and vPvB assessment**

**PBT:**
This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

(Contd. on page 10)

(Contd. of page 9)

**vPvB:**
This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Endocrine disrupting properties**
This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

**Other adverse effects**
No further relevant information available.

**Literature**
No further relevant information available.

**Ecotoxical effects:**
No further relevant information available.

| **Behaviour in sewage processing plants:** | |
|---|---|
| **2682-20-4 2-Methyl-2H-isothiazol-3-one** | |
| $EC_{20}$ (3h) | 2.8 mg/l (Activated sludge organisms) (DIN 38412-3 TTC-Test) |

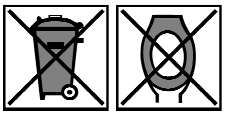
**Additional ecological information:**

**General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## *SECTION 13: Disposal considerations*

**Waste treatment methods**

**Recommendation:**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Risk of environmental pollution. Follow the applicable regulations on waste disposal. Keep unused products and contaminated packaging sealed. Provide containers for waste collection. Hand over for disposal to a specialist company authorised to carry out such activities. Prevent the product from being released into the environment. Do not allow the product to enter the sewage system. Must not be disposed of with municipal waste. Empty containers can be utilised for energy recovery in a waste incineration plant or, if classified accordingly, collected at a landfill site. Perfectly cleaned packaging can be recycled.

Dispose of contents/container in accordance with local/regional/national/international regulations.

| **European waste catalogue** | |
|---|---|
| 08 04 16 | Aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15 |
| 15 01 02 | Plastic packaging |
| HP4 | Irritant - skin irritation and eye damage |

15 01 02 for the completely emptied packaging

(Contd. on page 11)

**Safety data sheet**
*according to UK REACH*

KREISEL

Printing date 09.12.2024 Version number: RO/ 4 (replaces version 3) Revision: 28.10.2024

***KREM DO INIEKCJI 901***

(Contd. of page 10)

**Uncleaned packaging**

**Recommendation:**
Disposal must be made according to official regulations.
Recycle only completely emptied packaging.

## SECTION 14: Transport information

| | |
|---|---|
| **UN number or ID number**<br>**ADR, IMDG, IATA** | Void |
| **UN proper shipping name**<br>**ADR, IMDG, IATA** | Void |
| **Transport hazard class(es)**<br>**ADR, ADN, IMDG, IATA**<br>**Class** | Void |
| **Packing group**<br>**ADR, IMDG, IATA** | Void |
| **Environmental hazards** | Not applicable. |
| **Special precautions for user** | Not applicable |
| **Maritime transport in bulk according to IMO instruments** | Not applicable |
| **UN "Model Regulation":** | Void |

* 

## SECTION 15: Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**
**Poisons Act**

| **Regulated explosives precursors** |
|---|
| None of the ingredients is listed. |

| **Regulated poisons** |
|---|
| None of the ingredients is listed. |

| **Reportable explosives precursors** |
|---|
| None of the ingredients is listed. |

| **Reportable poisons** |
|---|
| None of the ingredients is listed. |

**GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).

**Hazard pictograms**

GHS07

**Signal word** Warning

(Contd. on page 12)

**Safety data sheet**
*according to UK REACH*



***KREM DO INIEKCJI 901***

(Contd. of page 11)

**Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.

**Precautionary statements**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**Directive (EU) 2012/18**
**Named dangerous substances - ANNEX I :**
None of the ingredients is listed.

**Biozide ingredients (EU) 528/2012:**
Data based on recipe and information on the raw materials from the supply chain.

| | |
|---|---|
| 2-Methyl-2H-isothiazol-3-one | ≥ 0,0015 - < 0,01% |

**Classification according (EU) 2004/42:**
Not applicable

**Other regulations, limitations and prohibitive regulations:**

·Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

·Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)

·Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

·Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste

·Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

**Chemical safety assessment**
A Chemical Safety Assessment has not been carried out.

## *SECTION 16: Other information*

**Reasons for changes:**
* Data compared to the previous version altered.

**Relevant phrases:**
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.

(Contd. on page 13)

**Safety data sheet**
**according to UK REACH**



(Contd. of page 12)

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.
H412 Harmful to aquatic life with long lasting effects.

**Advice for instructions:**
Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

**Literature and the data sources:**

**Department issuing MSDS:**
Product safety department (+43/(0)5522-41646-0 / klaus.ritter@fixit-gruppe.com)

**Contact:**
Dr. Klaus Ritter

**Abbreviations and acronyms:**
MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/ Germany)
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent, bioaccumulatice properties
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Further information:**
The information in this safety data sheet describe the safety requirements of our product and is based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.