



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.03.2020


Version number 13.0

Revision: 13.03.2020

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

- **1.1 Product identifier**
- **Trade name:** poLyChro®-fond
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Silicate-based primer for interior use.
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KEIMFARBEN GMBH  
Keimstraße 16 / 86420 Diedorf  
Tel. +49 (0)821 4802-0  
Fax +49 (0)821 4802-210  
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**  
Product safety department  
Telefon: 49(0)821/4802-138  
E-Mail: sdb.info@keimfarben.de
- **1.4 Emergency telephone number:**  
GBK GmbH Global Regulatory Compliance  
Emergency number: +49(0)6132/84463

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
2-methylisothiazol-3(2H)-one
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P102 Keep out of reach of children.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves / protective clothing.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

(Contd. on page 2)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 1)

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with regional/national regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Aqueous primer based on a sol-silicate solution and a copolymer resin dispersion

- **Dangerous components:**

CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-methylisothiazol-3(2H)-one ⚠️ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠️ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Skin Sens. 1A, H317	≥0.0015-<0.01%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
With appearance of symptoms or in cases of doubt seek medical advice .  
When seeing the doctor we suggest to present this safety data sheet.
- **After inhalation:**  
Take affected people into fresh air and keep quiet.  
Seek medical treatment in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Do not use solvents or thinners.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

DEN

(Contd. on page 3)



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

Trade name: poLyChro®-fond

(Contd. of page 2)

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
silicon dioxid (SiO<sub>2</sub>)  
carbon oxide (CO<sub>x</sub>)  
acrylic monomers
- **5.3 Advice for firefighters**
- **Specila protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
In case of fire do not breathe smoke, fumes and vapours.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Avoid contact with skin and eyes.  
Respect the protection rules (see section 7 a. 8).  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**  
Do not allow product to reach soil, sewage system or any water course.  
Follow local governmental rules and regulations.
- **6.3 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.  
Clear contaminated areas thoroughly.  
Flush rests with sufficient amount of water.
- **6.4 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

- **7.1 Precautions for safe handling**  
Keep receptacles tightly sealed.  
Avoid contact with skin and eyes.  
Do not inhale aerosols.  
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 3)

See item 8 (8.2) for information about suitable protective equipment and technical precautions.  
Respect the protection rules.

- **Information about fire - and explosion protection:**  
Cool endangered receptacles with water spray.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep in the original containers in a cool and dry place.  
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Please note information on label  
Protect from frost.  
Protect from heat and direct sunlight.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

**2682-20-4 2-methylisothiazol-3(2H)-one**

MAK (Germany)	Long-term value: 0.2 E mg/m <sup>3</sup> vgl. Abschn. Xc
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· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.  
Immediately remove all soiled and contaminated clothing.  
Do not inhale aerosols.

· **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.  
Combination filter A/P

· **Protection of hands:** Protective gloves

· **Material of gloves**

suitable material e.g.:

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

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.

(Contd. on page 5)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 4)

**· Penetration time of glove material**Value for the permeation: level  $\geq 6$  (480 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:** Safety glasses**· Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:****Form:** Fluid**Colour:** milky**· Odour:** Characteristic**· Odour threshold:** Not determined**· pH-value at 20 °C:** ~9\***· Change in condition****Melting point/freezing point:** Not determined**Initial boiling point and boiling range:** ~100 °C**· Flash point:** Not applicable**· Flammability (solid, gas):** Not applicable**· Ignition temperature:** Not determined**· Decomposition temperature:** Not determined**· Auto-ignition temperature:** Product is not selfigniting.**· Explosive properties:** Product does not present an explosion hazard.**· Explosion limits:****Lower:** Not applicable**Upper:** Not applicable**· Oxidising properties:** Not applicable**· Vapour pressure at 20 °C:** ~23 hPa**· Density at 20 °C:** 1.0-1.1\* g/cm<sup>3</sup>**· Relative density** Not determined**· Vapour density** Not applicable**· Evaporation rate** Not applicable.

(Contd. on page 6)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 5)

· <b>Solubility in / Miscibility with water:</b>	Miscible
· <b>Partition coefficient: n-octanol/water:</b>	Not applicable
· <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not determined. Not determined
· <b>Solvent content:</b> <b>VOC (EC)</b>	0.00 %
· <b>9.2 Other information</b>	* The values are for freshly produced material and may change with the time.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:  
silicon dioxid (SiO<sub>2</sub>)  
Carbon oxides (CO<sub>x</sub>)  
acrylic monomers  
No hazardous decomposition products if stored and handled as prescribed.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****2682-20-4 2-methylisothiazol-3(2H)-one**

Oral	LD50	235 mg/kg (rat) (männlich) 183 mg/kg (rat) (weiblich)
Dermal	LD50	242 mg/kg (rat) (OECD 402)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation** In case of longer exposure, irritating effect is possible.
- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible

(Contd. on page 7)

DEN



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 6)

- **Respiratory or skin sensitisation**  
Contains MIT. May produce an allergic reaction.  
MIT = 2-methylisothiazol-3(2H)-one  
May cause an allergic skin reaction.
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.  
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### 2682-20-4 2-methylisothiazol-3(2H)-one

NOEC	2.1 mg/l (fish) (33d) 0.04 mg/l (daphnia) (21d)
EC 50/72 h	0.158 mg/l (algae) (OECD 201)
LC 50/96 h	4.77 mg/l (Oncorhynchus mykiss) (OECD 203)
LC 50/48h	0.93-1.9 mg/l (daphnia)
LC50/EC50/IC50	<1 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:**  
Elimination in biological waste water treatment plants is effected by flocculation, precipitation and adsorption on sewage sludge.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Other information:** Pretreat waste water with help of precipitation.
- **Additional ecological information:**
- **AOX-indication:**  
Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**  
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
- **General notes:**  
At present there are no ecotoxicological assessments.

(Contd. on page 8)

DEN



### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 7)

- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available.

#### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Disposal must be made according to official regulations.  
Must not be disposed with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

#### SECTION 14: Transport information

· <b>14.1 UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	No dangerous good in sense of these transport regulations.
· <b>UN "Model Regulation":</b>	Void

DEN

(Contd. on page 9)





## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.03.2020

Version number 13.0

Revision: 13.03.2020

Trade name: poLyChro®-fond

(Contd. of page 8)

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** Not applicable
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** Not applicable
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** Not applicable
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
  - TRGS 200 (Germany)
  - TRGS 500 (Germany)
  - TRGS 510 (Germany)
  - TRGS 900 (Germany)
- **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable
- **Product-Code/Giscode:** BSW50
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H301 Toxic if swallowed.
  - H311 Toxic in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - 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.
- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport 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
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

(Contd. on page 10)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

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Version number 13.0

Revision: 13.03.2020

**Trade name: poLyChro®-fond**

(Contd. of page 9)

VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
AGW: Arbeitsplatzgrenzwert (Germany)  
EC10: Effective concentration at 10% mortality rate.  
EC50: Half maximal effective concentration.  
LC10: Lethal concentration at 10% mortality rate.  
NOEC: No observed effect concentration.  
REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)  
Acute Tox. 3: Acute toxicity - oral – Category 3  
Acute Tox. 2: Acute toxicity - inhalation – Category 2  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
· \* **Data compared to the previous version altered.**

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