

Page 1/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

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

· 1.1 Product identifier

- [·] Trade name: KEIM ÄTZFLÜSSIGKEIT
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Pre-treatment and cleaning agent for render surfaces.
- \cdot 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

Acute Tox. 4 H302 Harmful if swallowed.

- Acute Tox. 4 H312 Harmful in contact with skin.
- Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· 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



· Signal word Danger

- Hazard-determining components of labelling: fluorosilicic acid
- hydrofluoric acid
- Hazard statements
- H302+H312 Harmful if swallowed or in contact with skin.

(Contd. on page 2)



Page 2/11

*

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

			. of page	
	uses severe skin burn	s and eye damage.		
 Precautionary 				
P280		oves/protective clothing/eye protection/face protection	I .	
P260	Do not breathe spr			
		Rinse mouth. Do NOT induce vomiting.		
P305+P351+P3		e cautiously with water for several minutes. Remove	e contac	
		ind easy to do. Continue rinsing.		
P303+P361+P3		ir): Take off immediately all contaminated clothing. R	inse ski	
D004 . D040	with water [or show			
P304+P340		ove person to fresh air and keep comfortable for brea	tning.	
P308+P313 IF exposed or concerned: Get medical advice/attention.			ragional/nationa	
P501	international rocula	nts/container in accordance with local/regional/i	nationa	
· 2.3 Other haza	international regula	110115.		
	ros Fand vPvB assessme	ant		
		fill		
 • PBT: Not applie • vPvB: Not appl 				
VFVD. NOL appl	icable			
SECTION 3: 3.2 Mixtures	Composition/info	ormation on ingredients		
• 3.2 Mixtures • Description: Aqueous solution	n	brmation on ingredients h nonhazardous additions.		
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous construction 	on tances listed below wit mponents:	h nonhazardous additions.		
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 	on tances listed below wit mponents: -4 fluo	h nonhazardous additions. prosilicic acid	9.9%	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous control CAS: 16961-83 EINECS: 241-0 	on tances listed below wit mponents: -4 fluo 34-8 🐼	h nonhazardous additions.	9.9%	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-0 Index number: 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5	h nonhazardous additions. prosilicic acid	9.9%	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-00 Index number: 00 Reg.nr.: 01-211 	on tances listed below wit nponents: -4 34-8 009-011-00-5 9488906-19-xxxx	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314	_	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-00 Index number: 00 Reg.nr.: 01-211 CAS: 7664-39-3 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 hyd	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 rofluoric acid	_	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-0 Index number: Reg.nr.: 01-211 CAS: 7664-39-3 EINECS: 231-6 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 hyd 34-8 \bigotimes	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 rofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox.	_	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-00 Index number: 00 Reg.nr.: 01-211 CAS: 7664-39-3 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 hyd 34-8 \bigotimes	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 rofluoric acid	_	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-0 Index number: Reg.nr.: 01-211 CAS: 7664-39-3 EINECS: 231-6 Index number: 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 34-8 009-003-00-1 2, ⊢	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 rofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox.	_	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-0 Index number: Reg.nr.: 01-211 CAS: 7664-39-3 EINECS: 231-6 Index number: 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 34-8 009-003-00-1 2, ⊢	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 Irofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 1330; � Skin Corr. 1A, H314	_	
 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-0 Index number: Reg.nr.: 01-211 CAS: 7664-39-3 EINECS: 231-6 Index number: Additional information 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 34-8 009-003-00-1 2, H ormation: For the word	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 rofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 1330; ♦ Skin Corr. 1A, H314 ling of the listed hazard phrases refer to section 16.	_	
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 3.2 Mixtures Description: Aqueous solution Mixture of subs Dangerous con CAS: 16961-83 EINECS: 241-0 Index number: 0 Reg.nr.: 01-211 CAS: 7664-39-3 EINECS: 231-6 Index number: 0 Additional info SECTION 4: 	on tances listed below wit mponents: -4 fluo 34-8 009-011-00-5 9488906-19-xxxx 3 34-8 009-003-00-1 2, H ormation: For the word	h nonhazardous additions. prosilicic acid Skin Corr. 1B, H314 rofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 1330; Skin Corr. 1A, H314 ling of the listed hazard phrases refer to section 16.	9.9%	

Immediately remove any clothing soiled by the product.

When seeing the doctor we suggest to present this safety data sheet.

After inhalation:

Supply plenty of fresh air and to be sure call for a doctor.

Keep affected person warm and quiet.

In case of unconsciousness place patient stably in side position for transportation.

Do not use mouth to mouth or mouth to nose resuscitation.

(Contd. on page 3)

⁻ DEN



Page 3/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

(Contd. of page 2) Use a respiratory bag or breathing device. · After skin contact: Immediately rinse with water. Rub in Ca-gluconate solution or Ca-gluconate gel immediately. Seek medical treatment. · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing: Rinse mouth and throat well with 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 Medical supervision for at least 48 hours. SECTION 5: Firefighting measures · 5.1 Extinguishing media Suitable extinguishing agents: Water haze, extinguishing powder, alcohol resistant foam, CO2, sand. 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: Hydrogen fluoride (HF) silicon tetrafluoride 5.3 Advice for firefighters · Specila protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Additional information Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. In case of fire do not breathe smoke, fumes and vapours. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Respect the protection rules (see section 7 a. 8). Wear protective clothing.

- Mount respiratory protective device.
- Avoid contact with skin and eyes.
- Keep people at a distance and stay on the windward side.
- 6.2 Environmental precautions:
- Do not allow product to reach soil, sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.

Follow local governmental rules and regulations.

(Contd. on page 4)

DEN



Page 4/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

_	(Contd. of page 3
А	.3 Methods and material for containment and cleaning up: bsorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
D	lse neutralising agent. Dispose of the material collected according to regulations.
	ill in labelled, lockable containers. Vispose contaminated material as waste according to item 13.
	clear contaminated areas thoroughly.
· 6.	.4 Reference to other sections
	ee Section 7 for information on safe handling.
	ee Section 8 for information on personal protection equipment. see Section 13 for disposal information.
3	ECTION 7: Handling and storage
	.1 Precautions for safe handling
	eep receptacles tightly sealed. Insure good ventilation/exhaustion at the workplace.
	void contact with skin and eyes.
	o not inhale aerosols.
	ee item 8 (8.2) for information about suitable protective equipment and technical precaution respect the protection rules.
	iformation about fire - and explosion protection:
	he product is not flammable.
Ν	lo special measures required.
-	.2 Conditions for safe storage, including any incompatibilities
	torage: Requirements to be met by storerooms and receptacles:
	tore only in the original receptacle.
gl	lass and silicate containing materials are affected
	rip pan to be provided.
	n formation about storage in one common storage facility: tore away from metals.
	o not store together with alkalis (caustic solutions).
· F	urther information about storage conditions:
	tore in a cool place.
	rotect from frost.
	eep container tightly sealed. Protect from heat and direct sunlight.
	torage class: 8B
. 7	.3 Specific end use(s) No further relevant information available.



Page 5/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

(Contd. of page 4)

· 8.1 Control para		lire monitoring at the workplace:	
7664-39-3 hydro	•	and monitoring at the workplace.	
	Long-term value: 0.83 2(I);DFG, EU, Y, H	mg/m³, 1 ppm	
DNELs			
16961-83-4 fluor	osilicic acid		
Inhalative Acute	- systemic effects	3.125 mg/m³ (worker)	
Long-t	erm - systemic effects	1.875 mg/m ³ (worker)	
PNECs			
16961-83-4 fluor			
Aquatic compartm	nent - freshwater 0.9 m	ng/l (freshwater)	
-	biological limit value	S:	
7664-39-3 hydro	fluoric acid 7.0 mg/g Kreatinin		
	Parameter: Fluorid 4.0 mg/g Kreatinin Untersuchungsmateria Probennahmezeitpunk Parameter: Fluorid	al: Urin ‹t: vor nachfolgender Schicht	
 8.2 Exposure co Personal protection General protection General protection General protection Avoid contact with Do not inhale aer Wash hands before Immediately remote Respiratory protection Respiratory protection Protection of hat Material of glove suitable material Natural rubber, N Recommended th Chloroprene rubb 	ntrols tive equipment: ve and hygienic meas in the eyes and skin. osols. ore breaks and at the er ove all soiled and conta tection: iratory protective device B2/P2 nds: Acid resistant glov es e.g.: R nickness of the material	nd of work. minated clothing. e only when aerosol or mist is formed. ves l: \ge 0.5 mm	



Page 6/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

	(Contd. of pag	
Recommended thickness of the material: ≥ 0.7 mm		
of quality and varies from manufacturer substances, the resistance of the glove	es not only depend on the material, but also on further man to manufacturer. As the product is a preparation of seve material can not be calculated in advance and has theref	
to be checked prior to the application.		
• Penetration time of glove material	min)	
conditions. Therefore a maximum wear is recommended.	rding to EN 16523-1:2015 are not performed under practing time, which corresponds to 50% of the penetration time	
•	found out by the manufacturer of the protective gloves a	
has to be observed.		
• Eye protection: Face protection		
Tightly sealed goggles		
· Body protection:		
Protective work clothing		
Acid resistant protective clothing		
· Limitation and supervision of exposu	ire into the environment	
See Section 12 and 6.2 No further relevant information available		
SECTION 9: Physical and chemical properties		
· General Information	• 9.1 Information on basic physical and chemical properties	
· Appearance:		
· Appearance: Form:	Fluid	
	light pink, transparent	
Form: Colour: · Odour:	light pink, transparent Characteristic	
Form: Colour:	light pink, transparent	
Form: Colour: · Odour:	light pink, transparent Characteristic	
Form: Colour: • Odour: • Odour threshold: • pH-value at 20 °C: • Change in condition	light pink, transparent Characteristic Not determined	
Form: Colour: Odour: Odour threshold: pH-value at 20 °C:	light pink, transparent Characteristic Not determined ~1* Not determined	
Form: Colour: • Odour: • Odour threshold: • pH-value at 20 °C: • Change in condition Melting point/freezing point:	light pink, transparent Characteristic Not determined ~1* Not determined	
Form: Colour: Odour: Odour threshold: PH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang	light pink, transparent Characteristic Not determined ~1* Not determined ge: ~100 °C	
Form: Colour: Odour: Odour threshold: PH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang Flash point:	light pink, transparent Characteristic Not determined ~1* Not determined ge: ~100 °C Not applicable	
Form: Colour: Odour: Odour threshold: PH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang Flash point: Flammability (solid, gas):	light pink, transparent Characteristic Not determined ~1* Not determined ge: ~100 °C Not applicable Not applicable	
Form: Colour: Odour: Odour threshold: PH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang Flash point: Flammability (solid, gas): Ignition temperature:	light pink, transparent Characteristic Not determined ~1* Not determined ge: ~100 °C Not applicable Not applicable Not determined	
Form: Colour: Odour: Odour threshold: PH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature:	light pink, transparent Characteristic Not determined ~1* Not determined ge: ~100 °C Not applicable Not applicable Not determined Not determined	



Page 7/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

	(Contd. of page
Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour pressure at 20 °C:	~23 hPa
Density at 20 °C:	1-1.1* g/cm ³
Relative density	Not determined
Vapour density	Not applicable.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible
Partition coefficient: n-octanol/water:	Not applicable
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined
9.2 Other information	* The values are for freshly produced material and ma 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:
- To avoid thermal decomposition do not overheat.
- 10.3 Possibility of hazardous reactions Corrosive action on metals.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Bases

- Metals
- · 10.6 Hazardous decomposition products:

In case of fire, the following can be released:

Hydrogen fluoride

silicon tetrafluoride

No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Harmful if swallowed or in contact with skin.

(Contd. on page 8)

⁻ DEN



Page 8/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

(Contd. of page 7
· LD/LC50 values relevant for classification:
7664-39-3 hydrofluoric acid
Inhalative LC 50/1h 0.82 mg/l (rat)
· Primary irritant effect:
· Skin corrosion/irritation
Causes severe skin burns and eye damage.
· Serious eye damage/irritation
Causes serious eye damage.
 during inhalation: Irritating to respiratory system.
· during swallowing: harmful
· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
· 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 o
the individual components.
• CMR effects (carcinogenity, 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:

16961-83-4 fluorosilicic acid

LC 50/96 h 50 mg/l (fish)

7664-39-3 hydrofluoric acid

 NOEC
 231 mg/l (bacteria) (16h)

 EC 50/48h
 97 mg/l (daphnia)

- EC 50/96h 43 mg/l (algae)
- LC 50/96 h 51 mg/l (fish)

LC 50/48h 299 mg/l (fish)

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

• 12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

· 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.

(Contd. on page 9)



Page 9/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

(Contd. of page 8) • 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.

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): 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

Must not be disposed with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· European waste catalogue

06 01 06* other acids

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary with cleansing agents.

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN1778
 14.2 UN proper shipping name ADR IMDG, IATA 	1778 FLUOROSILICIC ACID, solution FLUOROSILICIC ACID solution
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	8 Corrosive substances.
	(Contd. on page 1



Page 10/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

	(Contd. of page
Label	8
[·] 14.4 Packing group [·] ADR, IMDG, IATA	II
[·] 14.5 Environmental hazards: [·] Marine pollutant:	No
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category 	Warning: Corrosive substances. 80 F-A,S-B Acids A
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable
· Transport/Additional information:	metal corrosive
• ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category • Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m 2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
UN "Model Regulation":	UN 1778 FLUOROSILICIC ACID, SOLUTION, 8, I

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.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

(Contd. on page 11)

DEN



Page 11/11

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

Printing date 02.09.2020

Version number 15.0

Revision: 02.09.2020

Trade name: KEIM ÄTZFLÜSSIGKEIT

(Contd. of page 10)

· National regulations:

• Waterhazard class: Water hazard class 2 (Self-assessment): 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: GF50
- 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

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

· 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) 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. 2: Acute toxicity - oral – Category 2 Acute Tox. 4: Acute toxicity - oral – Category 4 Acute Tox. 1: Acute toxicity - dermal - Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 ** Data compared to the previous version altered.