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

Printing date 06.09.2021

Version number 14.0 (replaces version 13.0)

Revision: 06.09.2021

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

1.1 Product identifier

- · Trade name: KEIM CONCRETAL-C
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Concrete paint/ concrete coating
- · Uses advised against All other uses are not recommended.
- 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

KEIM MINERAL PAINTS LTD Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA Tel +44 1952 231 250 / Fax +44 1952 231 251 www.keim.com / sales@keimpaints.co.uk

- **Further information obtainable from:** David Pratt Telefon: +44 1952 231250 E-Mail: sales@keimpaints.co.uk
- **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



· Signal word Warning

- · Hazard-determining components of labelling:
- 2-methylisothiazol-3(2H)-one
- 1,2-benzisothiazol-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.



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- 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. • Additional information:
- EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- · 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 solution of silica sol, acrylic polymer, mineral fillers, pigments, additives.

· Dangerous components:		
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119486799-10- xxxx	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 µm] Carc. 2, H351	<15%
CAS: 12001-26-2 EC number: 601-648-2	Mica substance with a Community workplace exposure limit	2.5-10%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; ↔ Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<0.02%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-methylisothiazol-3(2H)-one	<0.01%

· 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.



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- 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 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
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: carbon oxide (COx)

- acrylic monomers
- · 5.3 Advice for firefighters
- Specila protective equipment: Wear self-contained respiratory protective device.
- Additional information

The product itself is not inflammable. The remaining polymer after ablating of the aqueous phase is flammable.

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.

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.
 - Dilute with plenty of water.

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(Contd. of page 3) · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Close drainages (risk of blocking due to polymer precipitation) 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. 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: 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:

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm]

WEL Long-term value: 10* 4** mg/m³ *total inhalable **respirable

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were used as basis. tective equipment sol or mist is formed.
tective equipment
tective equipment
tective equipment
sol or mist is formed.
l on the material, but also on further mar
As the product is a preparation of seve
be calculated in advance and has therefore
-1:2015 are not performed under praction
prresponds to 50% of the penetration tim
· ·
manufacturer of the protective gloves a
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Melting point/freezing point: Boiling point or initial boiling point and	Not determined
boiling range	~100 °C (7732-18-5 water, distilled, conductiv or of similar purity)
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not applicable
Upper:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Product is not selfigniting.
	Not determined
Decomposition temperature:	
pH at 20 °C	8-9
Viscosity:	N / I / I / I
Kinematic viscosity	Not determined
Dynamic at 20 °C:	1.300-1.600* mPas
Solubility	
water:	Miscible
Partition coefficient n-octanol/water (log	
value)	Not applicable
Vapour pressure at 20 °C:	~23 hPa (7732-18-5 water, distilled, conductiv
	or of similar purity)
Density and/or relative density	
Density at 20 °C:	1.3-1.5* g/cm³
Relative density	Not determined
Vapour density	Not applicable.
9.2 Other information	* The values are for freshly produced mater
_	and may change with the time.
Appearance:	
Form:	Pasty
Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
Oxidising properties:	Not applicable
Evaporation rate	Not applicable
Information with regard to physical hazard	••
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
	Void
Oxidising gases Gases under pressure	Void
Gases under pressure Flammable liquids	Void Void

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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

• **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:

Carbon oxides (COx)

acrylic monomers

No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

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

· Acute toxicity

 LD/LC50 values relevant for classification: 13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] 		
Inhalative	ATE mix (4h)	>5 mg/l (inhalation)
	ATE mix	>2,000 mg/kg (dermal)
		>2,000 mg/kg (orally)
	NOAEL	3,500 mg/kg /Oral (rat) (90d)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	ATE	500 mg/kg (not specified) (Rechenmethode)
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2682-20-	4 2-methyli	(Contd. of pag sothiazol-3(2H)-one	
Oral	LD50	235 mg/kg (rat) (männlich)	
		183 mg/kg (rat) (weiblich)	
Dermal	mal LD50 242 mg/kg (rat) (OECD 402)		
Serious during in during s Respirat Contains MIT = 2-I BIT = 1,2 Other in Experime The proo	eye damage halation: In wallowing: ory or skin MIT, BIT. M methylisothia 2-benzisothia formation (a ental analysi		
Repeate	d dose toxi	city	
13463-67		n dioxide [in powder form containing 1 % or more of particles wi amic diameter ≤ 10 μm]	
Inhalative	NOAEC 1	10 mg/m³ (rat) (90d)	
		ogenity, mutagenicity and toxicity for reproduction) Not applicable other hazards	
Endocri	ne disruptir	ng properties	
		nts is listed.	

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic tox	icity:
	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm]
NOEC	≥100,000 mg/kg (sediment fresh water)
EC50	>100 mg/kg (freshwater alga) (OECD 201)
EC 50	>10,000 mg/l (algae) (ISO 10253)
LC 50	>10,000 mg/l (marine fish) (OECD 203)
	>1,000 mg/l (freshwater fish) (EPA-540/9-85-006)
	>1,000 mg/l (daphnia) (OECD 202)
2682-20-4 2	-methylisothiazol-3(2H)-one
NOEC	2.1 mg/l (fish) (33d)
	0.04 mg/l (daphnia) (21d)
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	(Carth afrance
EC 50/72 h	(Contd. of page 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)
	50 <1 mg/l (fish)
	ce and degradability No further relevant information available.
• Other informa	• •
Elimination in t	piological waste water treatment plants is effected by flocculation, precipitation a
adsorption on s	sewage sludge.
	nulative potential No further relevant information available.
	n soil No further relevant information available.
	f PBT and vPvB assessment
• PBT: Not appli	
• vPvB: Not app	
The product do	e disrupting properties es not contain substances with endocrine disrupting properties.
• 12.7 Other adv	
	tion: Pretreat waste water with help of precipitation.
	logical information:
AOX-indicatio	
	stance of content which do not include organic jointed halogens, the product can r
	on the AOX-load of the waste water.
	the formulation contains the following heavy metals and compounds from t
	NO. 2006/11/EC:
The product co • General notes	
	• e are no ecotoxicological assessments.
	its on ecotoxicology have been derived from the properties of the individu
components.	
Do not allow pr	oduct to reach ground water, water course or sewage system.
Water hazard o	class 1 (German Regulation) (Self-assessment): slightly hazardous for water
SECTION 13	3: Disposal considerations
13.1 Waste tre	atment methods
· Recommendat	tion
	posed with household garbage. Do not allow product to reach sewage system.
•	be made according to official regulations.
[.] European was	te catalogue
08 01 11* was	te paint and varnish containing organic solvents or other hazardous substances
· Uncleaned pad	ckaging.
	snayniy.
	tion: Disposal must be made according to official regulations.



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

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SECTION 14: Transport informat	ion
· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
 14.2 UN proper shipping name ADR, IMDG, IATA 	Void
 14.3 Transport hazard class(es) 	
· ADR, IMDG, IATA · Class	Void
 14.4 Packing group ADR, IMDG, IATA 	Void
 14.5 Environmental hazards: Marine pollutant: 	No
· 14.6 Special precautions for user	Not applicable
 14.7 Maritime transport in bulk accordir IMO instruments 	n g to Not applicable
· UN "Model Regulation":	Void

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
- · Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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** Toxic if swallowed. H301 H302 Harmful if swallowed. H311 Toxic 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. H330 Fatal if inhaled. Suspected of causing cancer. H351 H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. H410 H411 Toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Department issuing SDS: KEIMFARBEN Germany, Product safety department Abbreviations and acronyms: 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 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) 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 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 – 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 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Carc. 2: Carcinogenicity - Category 2 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 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 ** Data compared to the previous version altered.