Version: 2015 Rev. 0

# **Safety Data Sheet**

according to Regulation 1907/2006/EC-REACH (GB)



Release: SThelen, 03.08.15

Katimex® Special adhesive for Polykat® Fiberglass-Rod (Glasfaser Fixkleber) Trade Name:

Article Number: 103210 - 100216

Release Date: 02.04.2019 Revision Date: 04.11.2020 Valid from: 01.12.2020 Date of Expiry: Not specified

Version: 0.6 Replaces Version: 0.5

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

1.1 Product identifier

Katimex® Glasfaser Fixkleber hochviskos Substance name/Trade name:

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

Relevant identified uses: Adhesive for Katimex® Polykat® repair above 6 mm diameter

Uses adviced against: All, except those mentioned above

1.3 Details of the supplier of the safety data sheet

Katimex® Cielker GmbH

Bahnnofstr. 50 DE - 54584 Jünkerath

Company

Advisory body

Tel +49 [0]6597 9277-0 +49 [0]6597 9277-40 Fax Mail info@katimex.de

Address enquiries for technical information

Productmanagement +49 [0]6597 9277-0 info@katimex.de

1.4 Emergency telephone number

Toxikologische Abteilung

der II. Med. Klinik und Poliklinik, rechts der Isar

Technische Universität München

Ismaninger Straße 22 81675 München

Tel: +49 [0]89 19240 (24h) (german & english)

Fax: +49 [0]89 4140 2467 tox@lrz.tu-muenchen.de

http://www.toxinfo.med.tum.de/inhalt/giftnotrufmuenchen

#### 2. **Hazards identification**

### 2.1 Classification of the substance or mixture

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

Eye Irrit. 2: H319 Causes serious eye irritation. Skin Irrit. 2: H315 Causes skin irritation.

STOT SE 3: H335 May cause respiratory irritation.

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### 2.2 Label elements

Labelling according to Regulation (EC) Nr. 1272/2008

The product is classified and required to be labelled in accordance with

**EC-Directives** 

Hazard pictograms:

Signal word: WARNING

Contains: Ethyl-2-cyanoacrylate

Hazard statements: H315 Causes skin irritation.

> H319 Causes serious eye irritation. H335 May cause respiratory irritation.

P101 If medical advice is needed, have product container or label at Precautionary statements:

hand.

P102 Keep out of reach of children. P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/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. P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with

local/regional/national/international regulation.

Special labelling: EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds.

Keep out of the reach of children.

2.3 Other hazards

People who are allergic to cyanacrylates should avoid the use of the Human health dangers:

product.

Other hazards: No particular hazards known.

#### 3. Composition / Information on ingredients

### 3.1 Substances

Classification according to Regulation (EC) No. 1272/2008

The product is a mixture.

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#### 3.2 Mixtures

Composition / Information on ingredients

Substance: Ethyl-2-cyanoacrylate

CAS-No.: 7085-85-0

EU-Index-No.: 607-236-00-9

EINECS/ELINCS: 230-391-5

Reg. No.: 01-2119527766-29-XXXX

Range: 70-90%

GHS/CLP Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335

Substance: 1,4-Dihydroxybenzene

CAS-No.: 123-31-9

EU-Index-No.: 604-005-00-4

EINECS/ELINCS: 204-617-8

Range: 0,01-<0,1%

GHS/CLP: Carc. 2: H351; Muta. 2: H341; Acute Tox. 4: H302;

Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400, M = 10

Comment on component parts: Substances of Very High Concern - SVHC: substances are not contained

or are below 0,1%.

For full text of H-statements: see SECTION 16.

### 4. First aid measures

### 4.1 Description of first aid measures

General information: Take off contaminated clothing and wash before reuse.

Inhalation: Ensure supply of fresh air.

In the event of symptoms seek for medical treatment. Do not pull solidified product from skin forcibly.

Skin contact: In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Do not open bonded eyelids forcibly and without any special care.

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Ingestion: Get medical advice.

Do not induce vomiting.

Do not give anything to drink.

The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Ensure breathing passages are not obstructed. Saliva will separate the solidified product from the mouth over a period of hours. Do not try to pull the polymerised adhesive from the mouth. Keep checking the mouth to ensure that the person doesn`t swallow it when it detaches.

### 4.2 Most important symptoms and effects, both acute and delayed

Cyanoacrylates give off heat on solidification. Gross contamination with the adhesive may generate enough heat to cause a burn. Burns should be treated normally after the polymer has been removed gently from the skin. If the person experiences a burning sensation flood the contaminated akin immediately with plenty of cold water to cool the burn. continue to remove the adhesive by gently peeling or rolling it from the skin whilst soaking the contaminated area in cold water. It will take longer to remove the adhesive with cold water but it will still be effective. Accidental bonding of clothing with cyanoacrylate adhesive on the human skin: If the cyanoacrylate adhesive has been splashed on the clothing and has soaked through to the skin the clothing should never be forcibly removed from the skin. If the clothing has bonded directly on the skin and the person isn't experiencing a burning sensation the affected area should be soaked with warm soapy water and the clothing removed gently by peeling or rolling back. Cold water should be used in cases where there is any burning sensation. Forcible removal of bonded clothing from the skin could lead to mechanical damage occurring to the skin and this could result in a more severe injury.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Forward this sheet to the doctor.

### 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide.

Water spray jet.

Sand. Dry powder.

Extinguishing media that must not be used: Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO).

Unknown risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Collect contaminated firefighting water separately, must not be discharged into the drains. Cool containers at risk with water spray jet.

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#### 6. **Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures			
	Ensure adequate ventilation. Keep away from all sources of ignition. Forms slippery surfaces with water. Use breathing apparatus if exposed to vapours/dust/aerosol.		
6.2 Environmental precautions			
	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.		
6.3 Methods and material for containment and cleaning up			
	Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.		
6.4 Reference to other sections			
	See section 8 + 13.		

#### 7. Handling and storage

7.1 Precautions for safe handling		
	Use only in well-ventilated areas. Avoid spilling or spraying in enclosed areas.	
	Highly volatile, flammable components are liberated in processing. Keep away from all sources of ignition - Refrain from smoking.	
	Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.	
7.2 Conditions for safe storage, including any incompatibilities		
	Only use containers that are approved specifically for the substance/product. Provide solvent-resistant and impermeable floor. Do not store together with oxidizing agents.	
	Protect from heat/overheating. Keep container in a well-ventilated place. Keep container tightly closed. Storage class 10 (VCI)	
Storage Class (VCI)	Class 10: flammable substances	
7.3 Specific end use(s)		
	See product use, section 1.2	

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### 8. Exposure controls / personal protection

### 8.1 Control parameters

### 8.1.1 Ingredients with occupational exposure limits to be monitored (GB)

Substance: Ethyl-2-cyanoacrylate

CAS-No.: 7085-85-0

EU-Index-No.: 607-236-00-9

EINECS/ELINCS: 230-391-5

Reg. No.: 01-2119527766-29-XXXX

Short-term exposure (15-minute): 0,3 ppm, 1,5 mg/m<sup>3</sup>

DNEL Substance

Ethyl-2-cyanoacrylate, CAS: 7085-85-0

Industrial, inhalative, Long-term-systemic effects: 9,25 mg/m³. Industrial, inhalative, Long-term-local effects: 9,25 mg/m³.

general population, inhalative, Long-term-systemic effects:9,25 mg/m³. general population, inhalative, Long-term - local effects: 9,25 mg/m³

### 8.2 Exposure controls

### 8.2.1 Additional advice on system design

Ensure adequate ventilation on workstation.

### 8.2.2 Personal protective equipment:

Eye- / Face protection: Safety glasses. (EN 166:2001)

Skin protection: Light protective clothing.

Hand protection: The details concerned are recommendations. Please contact the glove

supplier for further information.

In full contact:

Glove material: Butyl rubber

Layer thickness (mm): > 0,4 mm

Penetration (min.): > 240 min (EN 374-1/-2/-3).

In splash contact:

Glove material: Nitrile rubber

Layer thickness (mm): > 0,4 mm

Penetration (min.): > 120 min (EN 374-1/-2/-3).

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Other: Personal protective equipment should be selected specifically for the

working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to

chemicals should be ascertained with the respective supplier. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin

Respiratory protection: Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards: No information available.

### 8.2.3 Delimitation and monitoring of the environmental exposition

Not determined.

### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form liquid
Color colourless
Odor pungent

Odour threshold No information available

pH-value Not applicable pH-value [1%] Not applicable

Boiling point [°C] 150
Flash point [°C] 87

Flammability (solid,gas) [°C] No information available
Lower explosion limit No information available
Upper explosion limit No information available

Oxidizing properties no

Vapour pressure/gas pressure [kPa] No information available

Density [g/ml] 1,05

Bulk density [kg/m³] Not applicable

Solubility in water Insolube, Reacts with water
Partition coefficient [n-octanol/water] No information available

Viscosity Not applicable

Relative vapour density [determined in air] No information available Evaporation speed No information available Melting point [°C] No information available

Autoignition temperature [°C] 500

Decomposition temperature [°C] No information available

### 9.2 Other information

No information available

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### 10. Stability and reactivity

10.1 Reactivity			
	See section 10.3.		
10.2 Chemical stability			
	Stable under normal ambient conditions (ambient temperature).		
10.3 Possibility of hazardous reactions			
	Reactions with strong oxidizing agents. Reactions with water. Reactions with amines. Reactions with alcohols. Reactions with alkalies (lyes).		
10.4 Conditions to avoid			
	Strong heating.		
10.5 Incompatible materials			
	See section 7		
10.6 Hazardous decomposition products			
	Irritant gases/vapours.		

### 11. Toxicological information

### 11.1 Information on toxicological effects

### 11.1.1 Substances

Acute toxicity

Product: ATE-mix, dermal, > 2000 mg/kg.

ATE-mix, oral, > 5000 mg/kg.

Substance: 1,4-Dihydroxybenzene, CAS: 123-31-9

LD50, dermal, Rabbit: 2000 mg/kg.

LD50, oral, Rat: 375 mg/kg.

Ethyl-2-cyanoacrylate, CAS: 7085-85-0 LD50, oral, Rat: > 5000 mg/kg (OECD 401). LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).

Serious eye damage/irritation Toxicological data of complete product are not available.

Irritant

Calculation method

Skin corrosion/irritation Toxicological data of complete product are not available.

Irritant

Calculation method

Respiratory or skin sensitisation Based on the available information, the classification criteria are not

fulfilled

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repeated exposure

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Specific target organ toxicity — Toxicological data of complete product are not available.

single exposure Irritant

Calculation method

Specific target organ toxicity — Based on the available information, the classification criteria are not

fulfilled

Mutagenicity Based on the available information, the classification criteria are not

fulfilled.

Does not contain a relevant substance that meets the classification

criteria.

Reproduction toxicity Based on the available information, the classification criteria are not

fulfilled.

Does not contain a relevant substance that meets the classification

criteria.

Carcinogenicity Based on the available information, the classification criteria are not

fulfilled.

Does not contain a relevant substance that meets the classification

criteria.

Aspiration hazard Based on the available information, the classification criteria are not

fulfilled

General remarks

Cyanoacrylates bond skin and eyelids in seconds. In the case of large

spills on the skin, superficial burns may occur - treat accordingly. There may be irritation and redness at the site of contact. Toxicological data of complete product are not available. The toxicity data listed pertaining to

the ingredients are intended for those working in the medicinal

professions, experts for occupational health and safety and toxicologists

### 12. Ecological information

1 2	4	To		-:4	
	- 1	- 10	X		·v

Substance 1,4-Dihydroxybenzene, CAS: 123-31-9

LC50, (96h), fish: 638 μg/L. EC50, (72h), Algae: 33 - 330 μg/L.

EC50, (48h), Invertebrates: 61 - 134 μg/L.

### 12.2 Persistence and degradability

Behaviour in sewage plant Not applicable

Biological degradability Not applicable

### 12.3 Bioaccumulative potential

No evidence for bioaccumulation potential

### 12.4 Mobility in soil

Cured product is immobile.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

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#### 12.6 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment. Do not

allow product to reach the drainage.

#### 13. **Disposal considerations**

#### 13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Dispose of as hazardous waste. Product

Waste no. (recommended) 080409\*

Contaminated packaging Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\*

#### 14. **Transport information**

### 14.1 UN-number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

3334 Air transport in accordance with IATA

### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

NOT CLASSIFIED AS "DANGEROUS GOODS" Marine transport in accordance with IMDG

UN 3334 Aviation regulated liquid, n.o.s. (Cyanoacrylates) Air transport in accordance with IATA

[only for more then 0,51]

Label



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14.3	Transpor	t hazard	class
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Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Air transport in accordance with IATA 9

### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA III

### 14.5 Environmental hazards

Transport by land according to ADR/RID No

Inland navigation (ADN) No

Marine transport in accordance with IMDG No

Air transport in accordance with IATA No

### 14.6 Special precautions for user

Relevant information under section 6 to 8.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

### 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

ECC regulations: 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006

(REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830;

(EU) 2016/131; (EU) 517/2014

Transport regulations: ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

National regulations (GB): EH40/2005 Workplace exposure limits (Second edition, published

December 2011).

Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing

mothers. Observe employment restrictions for young people.

VOC (2010/75/CE) 0 %

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### 15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety

assessment has been carried out:

#### Other information 16.

#### 16.1 Hazard statements Section 3:

H400 Very toxic to aquatic life.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H302 Harmful if swallowed.

H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

### 16.2 Abbreviations and acronyms:

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route RID Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN Accord européen relatif au transport international des marchandises dangereuses par voie de

navigation intérieure

CAS Chemical Abstracts Service

CI P Classification, Labelling and Packaging

**DMEL** Derived Minimum Effect Level DNEL Derived No Effect Level

EC50 Median effective concentration ECB European Chemicals Bureau **EEC European Economic Community** 

**EINECS** European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

GHS Globally Harmonized System of Classification and Labelling of Chemicals

IATA International Air Transport Association

International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IBC-Code

IC50 Inhibition concentration, 50%

**IMDG** International Maritime Code for Dangerous Goods International Uniform Chemical Information Database **IUCLID** 

LC50 Lethal concentration, 50%

LD50 Median lethal dose

MARPOL International Convention for the Prevention of Marine Pollution from Ships

PBT Persistent, Bioaccumulative and Toxic substance

**PNEC** Predicted No-Effect Concentration

**REACH** Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA Threshold limit value - time-weighted average **TLV®STEL** Threshold limit value - short-time exposure limit

TRGS Technische Regeln für Gefahrstoffe

VOC Volatile Organic Compounds

vPvB very Persistent and very Bioaccumulative

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### 16.4 Other information

**Customs Tariff** Not specified

Eye Irrit. 2: H319 Causes serious eye irritation. Classification procedure

(Calculation method)

Skin Irrit. 2: H315 Causes skin irritation.

(Calculation method)

STOT SE 3: H335 May cause respiratory irritation.

(Calculation method)

Modified position

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