

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.03.2019

Version number 3

Revision: 07.03.2019

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

#### **1.1 Product identifier**

- Trade name: **Akefix 100 High Tech CA-Adhesive**

- Article number: 30320

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

- Application of the substance / the mixture

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

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

- Further information obtainable from:

- **1.4 Emergency telephone number:** Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59

Reachable during the following office hours:

Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91

National Poison Inform. Centre

Medical Toxicology Unit

Avalonley Road

London SE14 5ER

### SECTION 2: Hazards identification

#### **2.1 Classification of the substance or mixture**

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



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

#### **2.2 Label elements**

- Labelling according to Regulation (EC) No 1272/2008

- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS07

- Signal word

Warning

- Hazard-determining components of labelling:

ethyl 2-cyanoacrylate

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing vapours.

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P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**2.3 Other hazards****Results of PBT and vPvB assessment**

- PBT: Not applicable.
- vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**

- Description: Mixture: consisting of the following components.

**Dangerous components:**

CAS: 7085-85-0 EINECS: 230-391-5 Index number: 607-236-00-9 Reg.nr.: 01-2119527766-29-xxxx	ethyl 2-cyanoacrylate  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-100%
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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: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: In case of unconsciousness place patient stably in side position for transportation.
- After eye contact: Immediately wash with water and soap and rinse thoroughly.
- After swallowing: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

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

Allergic reactions  
Headache  
Breathing difficulty  
Coughing  
Nausea

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**· 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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· For safety reasons unsuitable extinguishing agents:**

Water with full jet

**· 5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

**· 5.3 Advice for firefighters**

**· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

## SECTION 6: Accidental release measures

**· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

**· 6.2 Environmental precautions:**

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

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**· 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

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**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

**· Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

**· Storage:**

**· Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in a cool location.

**· Information about storage in one common storage facility:**

Store away from oxidising agents.

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- Further information about storage conditions:  
Protect from frost.  
Keep container tightly sealed.
- Storage class: 10
- 7.3 Specific end use(s): No further relevant information available.

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**SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.

**8.1 Control parameters**

- Ingredients with limit values that require monitoring at the workplace:

**7085-85-0 ethyl 2-cyanoacrylate**WEL | Short-term value: 1.5 mg/m<sup>3</sup>, 0.3 ppm

- DNELs

**7085-85-0 ethyl 2-cyanoacrylate**

Inhalative	DNEL (Langzeit-wiederholte)	9.25 mg/m <sup>3</sup> Air (ARB)
		9.25 mg/m <sup>3</sup> Air (BEV)

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

**8.2 Exposure controls**

- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Filter A/P2

- Protection of hands:

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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 trough 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: Butyl rubber, BR

- As protection from splashes gloves made of the following materials are suitable: Butoject (KCL, Art\_No. 897, 898)  
Butyl rubber, BR

- Not suitable are gloves made of the following materials: Nitrile rubber, NBR

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- Eye protection:

Tightly sealed goggles

- Body protection:

Light weight protective clothing

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**- General Information- Appearance:

Form:

Fluid

Colour:

Colourless

- Odour:

Pungent

- Odour threshold:

Not determined.

- pH-value:

Not determined.

- Change in conditionMelting point/freezing point: Undetermined.  
Initial boiling point and boiling range: > 200 °C- Flash point:

82 °C

- Flammability (solid, gas):

Not applicable.

- Decomposition temperature:

Not determined.

- Auto-ignition temperature:

Product is not selfigniting.

- Explosive properties:

Product does not present an explosion hazard.

- Explosion limits:Lower: Not determined.  
Upper: Not determined.- Vapour pressure:

Not determined.

- Density at 20 °C:

1.04 g/cm³

- Relative density

Not determined.

- Vapour density

Not determined.

- Evaporation rate

Not determined.

- Solubility in / Miscibility with water:

Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water:

Not determined.

- Viscosity:Dynamic: Not determined.  
Kinematic: Not determined.- Solvent content:

Organic solvents: 0.0 %

**9.2 Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability**

No decomposition if used according to specifications.

- Thermal decomposition / conditions to be avoided:

Danger of polymerisation.

**10.3 Possibility of hazardous reactions**

Reacts with acids, alkalis and oxidising agents.

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)

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## 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:

### 7085-85-0 ethyl 2-cyanoacrylate

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rabbit)
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- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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 May cause respiratory irritation.
- 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: No further relevant information available.
- **12.2 Persistence and degradability** biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Additional ecological information:
- General notes: 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 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN-Number</b>	Void
· <u>ADR, ADN, IMDG</u>	UN3334
· <b>14.2 UN proper shipping name</b>	Void
· <u>ADR, ADN, IMDG</u>	Aviation regulated liquid, n.o.s.
· <b>14.3 Transport hazard class(es)</b>	Void
· <u>ADR, ADN, IMDG</u>	
· <u>Class</u>	Void
· <u>IATA</u>	
	
· <u>Class</u>	9 Miscellaneous dangerous substances and articles.
· <u>Label</u>	9
· <b>14.4 Packing group</b>	Void
· <u>ADR, IMDG</u>	III
· <b>14.5 Environmental hazards:</b>	No
· <u>Marine pollutant:</u>	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.
· <u>Transport/Additional information:</u>	Not dangerous according to the above specifications.
· <u>UN "Model Regulation":</u>	Void

### SECTION 15: Regulatory information

· <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EWG (2008/47/EG); 453/2010/EG
· <u>Directive 2012/18/EU</u>	
· <u>Named dangerous substances - ANNEX I</u>	None of the ingredients is listed.
· <u>REGULATION (EC) No 1907/2006 ANNEX XVII</u>	Conditions of restriction: 3
· <u>National regulations:</u>	
· <u>Information about limitation of use:</u>	Employment restrictions concerning juveniles must be observed.
· <u>Waterhazard class:</u>	Water hazard class 1 (Self-assessment): slightly hazardous for water.
· <u>VOC EU</u>	0.0 g/l

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**· 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**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**· Department issuing SDS:**

Laboratory

**· Contact:**

Dieter Zimmermann

Elke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@akemi.de

**· 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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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