

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.12.2022 Version number 5 (replaces version 4) Revision: 08.12.2022

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
 CAS Number: 7085-85-0
 EC number: 230-391-5
 Index number: 607-236-00-9

• Registration number 01-2119527766-29-xxxx • UFI: SF44-C0AX-H00P-EC7N

• 1.2 Relevant identified uses of the substance or mixture and

<u>uses advised against</u> No further relevant information available.

Application of the substance / the

mixture Adhesives

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960

Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable

<u>from:</u> Laboratory

1.4 Emergency telephone

<u>number:</u> 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.

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 substance 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.

• <u>Precautionary statements</u> P101 If medical advice is needed, have product container or label at

hand

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing vapours.

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

P280 Wear protective gloves / eye protection.

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P302+P352 IF ON SKIN: Wash with plenty of water.

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.

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.√PvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description 7085-85-0 ethyl 2-cyanoacrylate

· Identification number(s)

• EC number: 230-391-5 • Index number: 607-236-00-9

· Specific concentration limits STOT SE 3; H335: C ≥ 10 %

Description: Mixture: consisting of the following components.

· Dangerous components:

Index number: 604-005-00-4 Eye Dam. 1, H318

Reg.nr.: 01-2119524016-51 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)

Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317

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.

In case of unconsciousness place patient stably in side position for

transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: 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

<u>delayed</u> Allergic reactions

Headache

Breathing difficulty

Coughing Nausea

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<1%



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 4.3 Indication of any immediate medical attention and special

<u>treatment needed</u> 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.

· 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 (NOx) 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.

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 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

<u>conditions:</u> Protect from frost.

Keep container tightly sealed.

· Storage class: 10

• 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: Not required.

· DNELs

7085-85-0 ethyl 2-cyanoacrylate

Inhalative DNEL (Kurzzeit-akut) 9.25 mg/m³ Air (ARB) 9.25 mg/m³ Air (BEV)

DNEL (Langzeit-wiederholt) 9.25 mg/m³ Air (ARB) 9.25 mg/m³ Air (BEV)

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

8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as 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

· Hand protection



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

• <u>Material of gloves</u> 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

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Not suitable are gloves made of the following materials:

Eye/face protection

Nitrile rubber, NBR



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

Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Colourless
Pungent
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling range 60 °C

· Flammability Not applicable.

· Lower and upper explosion limit

 $\begin{array}{ll} \cdot \ \, \underline{\text{Lower:}} & \text{Not determined.} \\ \cdot \ \, \underline{\text{Upper:}} & \text{Not determined.} \\ \cdot \ \, \overline{\text{Flash point:}} & \leq 93 \, ^{\circ}\text{C} \end{array}$

Decomposition temperature:
 pH
 Not determined.
 Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· <u>Solubility</u> · water:

<u>water:</u> Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not determined.

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

Molecular weight 125.13 g/mol

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives

Void

· Flammable gases

Void

· Aerosols

Void

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· Oxidising gases · Gases under pressure	Void	
· <u>Flammable liquids</u>	Void	
· <u>Flammable solids</u>	Void	
· Self-reactive substances and mixtu	Void <u>ures</u>	
· Pyrophoric liquids	Void	
· <u>Pyrophoric solids</u>	Void	
· Self-heating substances and mixtu	Void res	
· Substances and mixtures, which gases in contact with water	Void emit flammable	
· <u>Oxidising liquids</u> · <u>Oxidising solids</u>	Void	
	Void Void	
· <u>Organic peroxides</u>	Void	
· <u>Corrosive to metals</u>	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions Danger of polymerisation.

Reacts with acids, alkalis and oxidising agents.

· 10.4 Conditions to avoid No further relevant information available.

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No further relevant information available.

· 10.6 Hazardous decomposition

· 10.5 Incompatible materials:

products: Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

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

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)
Dermal LD50 >2,000 mg/kg (rabbit)

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation
 Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· <u>STOT-single exposure</u> May cause respiratory irritation.

• STOT-repeated exposure
• Aspiration hazard

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

12.2 Persistence and

<u>degradability</u> biodegradable

• 12.3 Bioaccumulative potential
• 12.4 Mobility in soil
• No further relevant information available.
• No further relevant information available.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 √PvB: Not applicable.

12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects · Additional ecological information:

· General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly

hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· <u>Recommendation</u> 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

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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

Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, ADN, IMDG Void ·IATA **UN3334**

14.2 UN proper shipping name

· ADR, ADN, IMDG Void

Aviation regulated liquid, n.o.s. (ethyl 2-cyanoacrylate) · IATA

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG

Void Class

·IATA



· Class 9 Miscellaneous dangerous substances and articles.

Label

14.4 Packing group

· ADR, IMDG Void Ш · IATA

· 14.5 Environmental hazards:

· Marine pollutant: Nο

· 14.6 Special precautions for user Not applicable.

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information: Not dangerous according to the above specifications.

· UN "Model Regulation": Void

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/ legislation specific for the

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; substance or mixture

1907/2006 (REACH); 1272/2008; 75/324/EWG (2008/47/EG); 453/2010/EG

· Directive 2012/18/EU

· Named dangerous substances -

Substance is not listed. ANNEX I

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

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· 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.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 20.0 g/l

· 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.

· Department issuing SDS: Laboratory · Contact: Elke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@akemi.de

· Date of previous version:

08.12.2022

· Version number of previous

version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European · Abbreviations and acronyms:

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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation - Category 1 Muta. 2: Germ cell mutagenicity - Category 2 Carc. 2: Carcinogenicity - Category 2

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

EII-