

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

Number of the version: GHS 1.1

Date of creation: 03.11.2023

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

- **1.1 Product identifier**
- **Trade name:** ARKAKRAFTPROTZ
- **Article number:** KPF, KPFP, KPFG, KPFG, KPG, KPGA, KPGH, KPGM, KPG3D, KPF3D, KPGP, KPGG, KPGK, KPFA, KPFH, KPFG, KPG3, KPF3, KPFG, KPFG, KPFGH, KPFGP, KPFGK, KPFGM, KPFG3D, KPFGA
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Adhesive
- **1.3 Details of the supplier providing the safety data sheet**
- **Manufacturer/Supplier:**
ARKA Biotechnologie GmbH
Mühlach 53-55
D-90552 Röthenbach
Phone: +49 (0)911 5698610 00Fax : +49 (0)911 5698610 29
email: info@arka-biotech.de
- **Informing department:** Giftnotruf München 24h / 7days
- **1.4 Emergency number:**
Phone: +49 (0)89 192 40

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No. 1272/2008**
-  GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
- **2.2 Labeling elements**
- **Labeling according to Regulation (EC) No. 1272/2008**
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**
-  GHS07
- **Signal word** Attention
- **Hazard-determining components of labeling:**
Ethyl-2-cyanoacrylate
- **Hazard warnings**
H315 Causes skin irritation.
H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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- Safety instructions

- P101 If medical advice is required, have packaging or label ready.
- P261 Avoid breathing vapor.
- P302+P352 If in contact with skin: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing.
- P501 Dispose of contents/container in accordance with national regulations.

- Additional information:

EUH202 Cyanoacrylate. Danger. Sticks skin and eyelids together within seconds. Keep out of the reach of children.

- 2.3 Other hazards

- Results of the PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Adhesive

- Hazardous ingredients:

CAS: 7085-85-0 EINECS: 230-391-5 Index number: 607-236-00-9 Reg. no.: 01-2119527766-29-0035	Ethyl-2-cyanoacrylate  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH202 STOT SE 3; H335:C ≥ 10 %	92-99%
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- Additional information:

The wording of the listed hazard statements can be found in section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information:** No special measures required.
- **After inhalation:** If unconscious, place in recovery position and transport in recovery position.
- **After skin contact:** Wash off immediately with soap and water and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist, consult a doctor.

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

No further relevant information available.

- 4.3 Information on immediate medical assistance or special treatment

No further relevant information available.

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SECTION 5: Fire-fighting measures

- **5.1 Extinguishing agents**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Instructions for firefighting**
- **Special protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Not required.
- **6.2 Environmental protection measures:**
Do not allow to enter drains/surface water/ground water.
- **6.3 Methods and material for containment and cleaning:**
Dispose of in suitable containers for recovery or disposal.
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
For information on safe handling see section 7. For information on personal protective equipment see section 8. For information on disposal see section 13.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.
Avoid aerosol formation.
- **Information about fire and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage in consideration of incompatibilities**
- **Storage:**
- **Requirements for storage rooms and containers:** No special requirements.
- **Storage instructions:** Not required.
- **Further information on storage conditions:** Keep container tightly closed.
- **Storage class:** 10
- **Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV):** -
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protective equipment

· 8.1 Parameters to be monitored

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

7085-85-0 ethyl 2-cyanoacrylate

MAK see section IIb

· **Additional notes:** The lists valid at the time of preparation were used as a basis.

· 8.2 Exposure controls and monitoring

· **Suitable technical control devices** No further information, see section 7.

· **Individual protective measures, for example personal protective equipment**

· **General protective and hygiene measures:**

The usual precautionary measures for handling chemicals must be observed. Keep away from food, drink and animal feed.

Remove soiled, soaked clothing immediately. Wash hands before breaks and at the end of work. Do not inhale gases/vapors/aerosols.

Avoid contact with eyes and skin.

· **Respiratory protection** Not required.

· **Hand protection**



Protective gloves

The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material taking into account the breakthrough times, permeation rates and degradation.

· **Glove material**

Recommended material thickness: > 0.12 mm

Nitrile gloves with a material thickness of >0.1 mm (breakthrough time < 30s).

For prolonged contact, protective gloves made of nitrile rubber in accordance with EN 374 are recommended. Material thickness > 0.4 mm

Breakthrough time > 30 minutes Nitrile rubber

· **Penetration time of the glove material**

For the mixture of the following chemicals, the breakthrough time must be at least 10 minutes (permeation according to EN 374 Part 3: Level 1).

· **Eye/face protection**

Safety goggles



Tight-fitting safety goggles

Safety goggles are recommended when decanting.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General information	
· Physical state	Light to high viscosity
· Color	Colorless - transparent
· Odor:	Characteristic - acrid
· Odor threshold:	Not determined.
· Melting point/freezing point:	Not determined.
· Boiling point or start of boiling and Boiling range	≥160 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	≥78 °C
· Decomposition temperature:	Not determined.
· pH value:	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	1000 mPas
· Solubility	
· Water:	Not or only slightly miscible.
· Partition coefficient n-octanol/water (log-value)	Not determined.
· Vapor pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.25 g/cm ³
· Relative density	Not determined.
· Vapor density	Not determined.

· 9.2 Other information

	All physical data relevant to the mixture have been determined. All undetermined data are not measurable or not relevant for the characterization of the mixture.
· Appearance:	
· Form:	Liquid / paste
· Important information on health, environmental protection and safety	
· Ignition temperature	The product is not self-igniting.
· Explosive properties:	The product is not explosive.
· Solvent content:	
· Solids content:	Not determined.
· Change of state	
· Evaporation rate	Not determined.

· Assessment of physical hazard classes

· Explosive substances/mixtures and articles with explosive	not applicable
· Flammable gases	Not applicable

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· Aerosols	not applicable
· Oxidizing gases	Not applicable
· Gases under pressure	not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	not applicable
· Pyrophoric solids	not applicable
· Self-heating substances and mixtures	not applicable
· Substances and mixtures that come into contact with	
Water can develop flammable gases	not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	not applicable
· Substances corrosive to metals	
and mixtures	Not applicable
· Desensitized substances/mixtures and	
Products containing explosives	not applicable

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 when used as intended.
- **10.3 Possibility of hazardous reactions** No hazardous 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:** No hazardous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Corrosive/irritant effect on the skin**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Sensitization of the respiratory tract/skin**
Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**
Not applicable.
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.
- **Specific target organ toxicity (single exposure)** May cause respiratory irritation.
- **Specific target organ toxicity with repeated exposure**
Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- **Sensitization** Not applicable.
- **Repeated dose toxicity** Not applicable.
- **11.2 Information on other hazards**

- Endocrine disrupting properties
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None of the ingredients are included.

SECTION 12: Environmental information

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- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **12.5 Results of the PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain any substances with endocrine-disrupting properties.
- **12.7 Other adverse effects**
- **Further ecological information:**
- **General information:**
Water hazard class 1 (self-classification): slightly hazardous to water

SECTION 13: Disposal instructions

- **13.1 Waste treatment processes**
- **Recommendation:**
Must not be disposed of together with household waste. Do not allow to enter the sewage system.
Dispose of in accordance with official regulations.
- **Uncleaned packaging:**
The return of packaging materials is regulated by the Dual System Germany (green dot).
- **Recommendation:** Dispose of in accordance with official regulations.

SECTION 14: Transport information

- | | |
|--------------------------------------|----------------|
| · 14.1 UN number or ID number | |
| · ADR/ADN, IMDG, IATA | not applicable |
| · ADN | not applicable |

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|---|-----------------|
| · 14.2 UN proper shipping name
· ADR/ADN, ADN, IMDG, IATA | not applicable |
| · 14.3 Transport hazard classes
· ADR/ADN, ADN, IMDG, IATA
· Class | not applicable |
| · 14.4 Packaging group
· ADR/ADN, IMDG, IATA | not applicable |
| - 14.5 Environmental hazards: | Not applicable. |
| - 14.6 Special precautions for the user | Not applicable. |
| - 14.7 Transport of bulk goods by sea according to IMO instruments | Not applicable. |
| - UN "Model Regulation": | Not applicable |

SECTION 15: Legislation

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Directive 2012/18/EU
- **Named dangerous substances - ANNEX I** None of the ingredients are included.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Restriction conditions: 3

- **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 are included.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED OUTPUTS FOR EXPLOSIVE SUBSTANCES (Upper concentration limit for an authorization under Article 5(3))**

None of the ingredients are included.

- **Annex II - DECLARABLE EXPLOSIVES FOR EXPLOSIVE MATERIALS**

None of the ingredients are included.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients are included.

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

None of the ingredients are included.

- **National regulations:**

- **Water hazard class:**

Waterbezwaarlijkheid (NL): A(4)

WGK 1 (self-classification): slightly hazardous to water.

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- 15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.

• **Relevant sentences**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
EUH202 Cyanoacrylate. Danger. Sticks skin and eyelids together within seconds. Keep out of the reach of children.

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

Skin irritating/corrosive effect
Serious eye damage/eye irritation
Specific target organ toxicity (single exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Data sheet issuing division:** ARKA Biotechnologie GmbH
- **Contact person:** Christian Weiss
- **Date of creation:** 03.11.2023
- **Version number of the previous version:** 1.0
- **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 Harmonized 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)
 - GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Skin Irrit. 2: Skin irritant/corrosive effect - Category 2
 - Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
 - STOT SE 3: Specific target organ toxicity (single exposure) - Category 3