

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

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

1.1 Product identifier

Trade name: **Akepur 250 High Tack Komponente A**

Article number: 11488_A, 11489_A

UFI: 40R3-Y08D-300W-GUR9

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

Adhesives
Polyurethane-sealant

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:

Laboratory

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.

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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



GHS07

Signal word

Warning

Hazard-determining components of labelling:

Not applicable.

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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.

P273

Avoid release to the environment.

P280

Wear protective gloves / eye protection.

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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

P501

(Contd. of page 1)

Dispose of contents/container in accordance with local/
regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-
disrupting properties

For information on endocrine disrupting properties see section 11.

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

Description: Mixture: consisting of the following components.

Dangerous components:

CAS: 25214-63-5 NLP: 500-035-6 Reg.nr.: 01-2119471485-32-0002	ethylenediamine, propoxylated Eye Irrit. 2, H319	<10%
CAS: 25322-69-4	Polypropylenglykol Acute Tox. 4, H302	<10%
CAS: 112-69-6 EINECS: 203-997-2 Reg.nr.: 01-2119485394-29	Hexadecyldimethylamine Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	1-5%

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: No special measures required.

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.
If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Induce vomiting only, if affected person is fully conscious.
If symptoms persist consult doctor.

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.
Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 2)

· 5.3 Advice for firefighters**· Protective equipment:****· Additional information**

Hydrogen cyanide (HCN)

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

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.

· 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.

Store in cool, dry place in tightly closed receptacles.

· Information about fire - and explosion protection:

No special measures required.

· 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.

No special requirements.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Protect from frost.

· 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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Komponente A

(Contd. of page 3)

· DNELs

25214-63-5 ethylenediamine, propoxylated

Oral	DNEL (Langzeit-wiederholt)	8.3 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	13.9 mg/kg bw/day (ARB)
		8.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	98 mg/m³ Air (ARB)
		29 mg/m³ Air (BEV)

25322-69-4 Polypropylenglykol

Oral	DNEL (Langzeit-wiederholt)	24 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	84 mg/kg bw/day (ARB)
		51 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	10 mg/m³ Air (ARB)
		10 mg/m³ Air (BEV)

112-69-6 Hexadecyldimethylamine

Oral	DNEL (Langzeit-wiederholt)	0.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	1 mg/m³ Air (ARB)
	DNEL (Langzeit-wiederholt)	1 mg/m³ Air (ARB)

· PNECs

25214-63-5 ethylenediamine, propoxylated

PNEC (wässrig)	70 mg/l (KA)
	0.0085 mg/l (MW)
	0.085 mg/l (SW)
PNEC (fest)	0.0183 mg/kg Trockengew (BO)
	0.34 mg/kg Trockengew (MWS)
	0.34 mg/kg Trockengew (SWS)

25322-69-4 Polypropylenglykol

PNEC (wässrig)	100 mg/l (KA)
	0.01 mg/l (MW)
	0.1 mg/l (SW)
	1 mg/l (WAS)
PNEC (fest)	0.109 mg/kg Trockengew (BO)
	0.0765 mg/kg Trockengew (MWS)
	0.765 mg/kg Trockengew (SWS)

112-69-6 Hexadecyldimethylamine

PNEC (wässrig)	0.13 mg/l (KA)
	0.00003 mg/l (MW)
	0.00026 mg/l (SW)
PNEC (fest)	1 mg/kg Trockengew (BO)
	0.125 mg/kg Trockengew (MWS)
	1.25 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.· **8.2 Exposure controls**· Appropriate engineering controls No further data; see section 7.

(Contd. on page 5)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 4)

- Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
 Keep away from foodstuffs, beverages and feed.
 Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Wash hands before breaks and at the end of work.
 - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
 Filter B
 Not necessary if room is well-ventilated.
 - Hand protection

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.
 This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).
 Preventive skin protection by use of skin-protecting agents is recommended.
 After use of gloves apply skin-cleaning agents and skin cosmetics.
- 

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - Eye/face protection

Goggles recommended during refilling
 - Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- General Information
- Colour: White
- Odour: Nearly odourless
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Undetermined.
- Flammability Not applicable.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 5)

· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	Not determined.
· <u>Upper:</u>	Not determined.
· <u>Flash point:</u>	185 °C
· <u>Auto-ignition temperature:</u>	>450 °C
· <u>Decomposition temperature:</u>	Not determined.
· <u>pH</u>	Not determined.
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic at 20 °C:</u>	55,300 mPas
· <u>Solubility</u>	
· <u>water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure:</u>	Not determined.
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.54 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

· 9.2 Other information

· <u>Appearance:</u>	
· <u>Form:</u>	Pasty
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Solvent content:</u>	
· <u>Solids content:</u>	55.6 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not determined.

· Information with regard to physical hazard classes

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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 6)

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** 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:** No dangerous decomposition products known.

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:

ATE (Acute Toxicity Estimates)

Oral	LD50	<19,542 mg/kg (rat)
------	------	---------------------

25214-63-5 ethylenediamine, propoxylated

Oral	LD50	>2,000 mg/kg (rat)
	NOAEL-Werte	1,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

25322-69-4 Polypropylenglykol

Oral	LD50	<2,000 mg/kg (rat)
	NOAEL	≥1,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

112-69-6 Hexadecyldimethylamine

Oral	LD50	1,015 mg/kg (rat)
------	------	-------------------

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

11.2 Information on other hazards· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity**· **Aquatic toxicity:****25214-63-5 ethylenediamine, propoxylated**

IC50/72h	>100 mg/l (Desmodesmus subspicatus)
----------	-------------------------------------

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 7)

EC50/48h	>100 mg/l (daphnia magna)
ErC50/72h	150.67 mg/l (Desmodesmus subspicatus)
NOEC	700 mg/l (BES)
NOEC/21d	≥10 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Brachydanio rerio)
	4,870 mg/l (Danio rerio.)
	4,600 mg/l (Leuciscus idus)

25322-69-4 Polypropylenglykol

EC50	>1,000 mg/l (BES)
IC50/72h	>100 mg/l (green alge)
IC50/96h	>100 mg/l (poecilia reticulata)
EC0	≥100 mg/l (Desmodesmus subspicatus)
NOEC/21d	≥10 mg/l (daphnia magna)
EC50/48h	>100 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)
	>100 mg/l (poecilia reticulata)

112-69-6 Hexadecyldimethylamine

EC50	40 mg/l (bacteria)
EC50/48h	0.0665 mg/l (daphnia magna)
NOEC/21d	0.036 mg/l (daphnia magna)
EC10	0.001 mg/l (Desmodesmus subspicatus)
EC50/72h	0.0099 mg/l (Desmodesmus subspicatus)
LC50/96h	0.256 mg/l (Danio rerio.)
	0.18 mg/l (Oncorhynchus mykiss)

· **12.2 Persistence and degradability**

Not easily biodegradable

· **12.3 Bioaccumulative potential**

Non significant accumulation in organisms

· **12.4 Mobility in soil**

No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· Remark: Harmful to fish

· Additional ecological information:

· General notes: Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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)

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 8)

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

· 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, IATA

Void

· **14.2 UN proper shipping name**· ADR, ADN, IMDG, IATA

Void

· **14.3 Transport hazard class(es)**· ADR, ADN, 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 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 substance or mixture**

· Directive 2012/18/EU

· Named dangerous substances -· ANNEX I

None of the ingredients is listed.

· REGULATION (EC) No 1907/2006· ANNEX XVII

Conditions of restriction: 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 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.

(Contd. on page 10)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4 (replaces version 3)

Revision: 17.05.2023

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 9)

- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Substances of very high concern (SVHC) according to REACH, Article 57
- None of the ingredients is listed.
- VOC EU 0.0 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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
- Date of previous version: 17.05.2023
- Version number of previous version: 3
- Abbreviations and acronyms:
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - 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)
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (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 Corr. 1A: Skin corrosion/irritation – Category 1A
 - 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
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU