



**HESTORE.HU**

elektronikai alkatrész áruház

**EN:** This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).

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

### 1.1 Product identifier

**Trade name/designation** WLK (Härter)

### Other means of identification

UFI: G1V2-M6WD-RX0D-NJ5J

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

#### Relevant identified uses

##### remark

Thermally conductive adhesive

The product is intended for professional use.

#### Uses advised against

Do not use for private purposes (household).

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

#### Manufacturer

Fischer Elektronik GmbH & Co. KG

Nottebohmstraße 28

D-58511 Lüdenscheid

Telephone: +49-2351-4350

Telefax: +49-2351-45754

E-mail: info@fischerelektronik.de

Information telephone: +49-2351-4350

E-mail (competent person): info@fischerelektronik.de

www.fischerelektronik.de

### 1.4 Emergency telephone number

+49-228-19240 (English and German, Giftnotruf Bonn)

---

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

#### health hazards

Skin Corr. 1B

#### hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

#### health hazards

Eye Dam. 1

#### hazard statements for health hazards

H318 Causes serious eye damage.

#### health hazards

Skin Sens. 1

#### hazard statements for health hazards

H317 May cause an allergic skin reaction.

#### remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

---

## 2.2 Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard components for labelling

3,3'-oxybis(ethyleneoxy)bis(propylamine)

#### Hazard pictograms



GHS07

GHS05

#### Signal word

Danger

#### Hazard statements

##### hazard statements for health hazards

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

##### Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/.

##### Disposal:

P501 Dispose of contents/container to industrial incineration plant.

## 2.3 Other hazards

### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Results of PBT and vPvB assessment

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

---

## SECTION 3: Composition / information on ingredients

### Additional information

Full text of H- and EUH-phrases: see section 16.

---

### 3.1 Substances (not applicable)

### 3.2 Mixtures

#### Hazardous ingredients

3,3'-oxybis(ethyleneoxy)bis(propylamine) >50 - <100 %

CAS 4246-51-9

EC 224-207-2

Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Eye Dam. 1, H318

---

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

#### Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### After eye contact

Protect uninjured eye. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### Following ingestion

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

#### Effects

Allergic reactions

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

#### Notes for the doctor

Treat symptomatically.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

Water spray

Foam

#### Unsuitable extinguishing media

Full water jet

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

#### Hazardous combustion products

Carbon monoxide

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

---

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing.

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Emergency procedures

Provide adequate ventilation.

##### Personal precautions

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

#### For containment

##### Suitable material for taking up:

Sand

Universal binder

Sawdust

### 6.4 Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Use protective skin cream before handling the product. Wash contaminated clothing prior to re-use.

In the immediate working surroundings there must be:

Emergency shower installed

Provide eye shower and label its location conspicuously

#### Protective measures

##### Advices on safe handling

Use only in well-ventilated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed. The floor should be leak tight, jointless and not absorbent.

#### Hints on joint storage

##### Materials to avoid

Food and feedingstuffs

##### Storage class

Combustible corrosive substances (liquid)

---

---

## Further information on storage conditions

### storage temperature

Value >5 - <25 °C

## 7.3 Specific end use(s)

### Recommendation

Observe technical data sheet.

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### remark

To date, no national critical limit values exist.

### 8.2 Exposure controls

#### Appropriate engineering controls

#### Substance/mixture related measures to prevent exposure during identified uses

Fresh air (open windows and doors) is necessary.

#### Personal protection equipment

##### Eye/face protection

##### Suitable eye protection:

Eye glasses with side protection

goggles

##### Recommended eye protection articles

###### DIN-/EN-Norms

DIN EN 166

##### Skin protection

##### Suitable material:

NBR (Nitrile rubber)

Breakthrough time: >480 min

Thickness of the glove material 0,7 mm

##### Recommended glove articles

###### DIN-/EN-Norms

EN ISO 374

#### remark

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection:

##### Suitable protective clothing:

not relevant

##### Respiratory protection

##### Suitable respiratory protection apparatus:

Combination filtering device

ABEK-P2

**remark**

Usually no personal respirative protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Environmental exposure controls**

**Organisational measures to prevent exposure**

not determined

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Physical state**

liquid

**Colour**

amber

**Odour**

Amines

**Odour threshold:**

not determined

	parameter	Method - source - remark
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	146 °C
	flammability	not determined
	Upper explosion limit	not determined
	lower explosion limit	not determined
	Flash point (°C)	139 °C
	Auto-ignition temperature	not determined
	Decomposition temperature	not determined
	pH	not determined
	Kinematic viscosity	not determined
	Water solubility	Immiscible
	Soluble (g/L) in	not determined
	Fat solubility	not determined
	Partition coefficient: n-octanol/water	not determined
	Vapour pressure	not determined
	Density and/or relative density	not determined
	Relative vapour density	not determined

parameter	Method - source - remark
particle characteristics	not determined
Dynamic viscosity	not determined
flow time	not determined

## 9.2 Other information

### Evaporation rate

**remark**

not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

In case of warming:

Danger of bursting container.

### 10.5 Incompatible materials

Oxidising agent, strong

Acid, concentrated

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute dermal toxicity

**ingredient** 3,3'-oxybis(ethyleneoxy)bis(propylamine)

**Acute dermal toxicity** >2500 mg/kg

##### Effective dose

LD50:

##### Species:

Rabbit

##### Method

OECD 402

##### Acute oral toxicity

**ingredient** 3,3'-oxybis(ethyleneoxy)bis(propylamine)

**Acute oral toxicity** ca.3160 mg/kg

---

**Effective dose**

LD50:

**Species:**

Rat

**Serious eye damage/irritation**

**Assessment/classification**

Causes burns.

**skin corrosion/irritation**

**Assessment/classification**

Causes severe skin burns and eye damage.

**Respiratory or skin sensitisation**

**Skin sensitisation**

**Assessment/classification**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity**

**Human toxicological data**

**remark**

No indications of human germ cell mutagenicity exist.

**Carcinogenicity**

**Practical experience/human evidence**

No indication of human carcinogenicity.

**Reproductive toxicity**

**Practical experience/human evidence**

No indications of human reproductive toxicity exist.

**STOT-single exposure**

**STOT SE 1 and 2**

**Other information**

not relevant

**STOT-repeated exposure**

**STOT RE 1 and 2**

**Other information**

not relevant

**11.2 Information on other hazards**

No information available.

---

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) fish toxicity**

**ingredient** 3,3'-oxybis(ethyleneoxy)bis(propylamine)

**Acute (short-term) fish toxicity** >1000 mg/L

---

**Effective dose**

LC50:

**Test duration** 96 h

**species**

Leuciscus idus (golden orfe)

**Method**

DIN 38412 / part 15

**Acute (short-term) toxicity to crustacea**

**ingredient** 3,3'-oxybis(ethyleneoxy)bis(propylamine)

**Acute (short-term) toxicity to crustacea** 218,16 mg/L

**Effective dose**

EC50

**Test duration** 48 h

**species**

Daphnia magna (Big water flea)

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

---

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Directive 2008/98/EC (Waste Framework Directive)**

**Before intended use**

**Appropriate disposal / Package**

Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

**Waste code product** 080409

**hazardous waste** Yes.

**Waste name**

waste adhesives and sealants containing organic solvents or other hazardous substances

**After intended use**

**Appropriate disposal / Product**

Dispose of waste according to applicable legislation.

**Waste code packaging** 150110

**hazardous waste** Yes.

**Waste name**

packaging containing residues of or contaminated by hazardous substances

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	2735	2735	2735
14.2 Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (3,3-oxybis(ethyleneoxy)bis(propylamine))	AMINES, LIQUID, CORROSIVE, N.O.S. (3,3-oxybis(ethyleneoxy)bis(propylamine))	Amines, liquid, corrosive, n.o.s. (3,3-oxybis(ethyleneoxy)bis(propylamine))
14.3 Class(es)	8	8	8
14.4 Packing group	II	II	II
14.5 Environmental hazards	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

**Additional information - Land transport (ADR/RID)**

Hazard label(s)	8
Classification code	C7
Limited quantity (LQ)	1 L
Hazard identification number (Kemler No.)	80
tunnel restriction code	E
transport category	2

**Additional information - Sea transport (IMDG)**

Marine pollutant	No
remark	EMS F-A, S-B

**Additional information - Air transport (ICAO-TI / IATA-DGR)**

Limited quantity (LQ)	0,5
-----------------------	-----

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Restrictions of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

### CHAPTER V: SPECIAL PROVISIONS FOR INSTALLATIONS AND ACTIVITIES USING ORGANIC SOLVENTS

Volatile organic compounds (VOC) content in percent by weight: <0,1 weight-%

### 15.2 Chemical Safety Assessment

not applicable

---

## SECTION 16: Other information

### Abbreviations and acronyms

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

### Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

### Relevant R-, H- and EUH-phrases (Number and full text)

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.