
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

Nortebohmstraße 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 (CO₂)

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_x)

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 respiratory 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
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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 juveniles 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

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.