

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

1.1 Product identifier

Trade name/designation WLK (Binder)

Other means of identification UFI: SYU2-4670-EX0W-06KG

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

Eye Irrit. 2

hazard statements for health hazards

H319 Causes serious eye irritation.

health hazards Skin Irrit. 2

hazard statements for health hazards H315 Causes skin irritation.

health hazards Skin Sens. 1

hazard statements for health hazards

H317 May cause an allergic skin reaction.

health hazards Muta. 2



hazard statements for health hazards

H341 Suspected of causing genetic defects.

Environmental hazards

Aquatic Chronic 3

hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

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

2,3-epoxypropyl o-tolyl ether reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Hazard pictograms



GHS07 GHS08

Signal word

Warning

Hazard statements

hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment. P280 Wear protective gloves and eye/face protection. P201 Obtain special instructions before use.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501 Dispose of contents/container to industrial incineration plant.

Special rules for supplemental label elements for certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

3.1/3.2 Substances/Mixtures

Hazardous ingredients

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	>10 - <25 %
CĂS 25068-38-6	
EC 500-033-5	
INDEX 603-074-00-8	
Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411	
2,3-epoxypropyl o-tolyl ether	>2,5 - <10 %
CAS 2210-79-9	
EC 218-645-3	
INDEX 603-056-00-X	
Muta. 2, H341 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing.

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion

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

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

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

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. Prevent spread over a wide area (e.g. by containment or oil barriers).

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.



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

Oxidising agent Food and feedingstuffs

Storage class Flammable liquids

7.3 Specific end use(s)

Recommendation

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

-	-			
CAS No.		LTV	STV	remark
112926-00-8	Silica, amorphous	6 inhalable ac 2,4 respirable		Croct Pritoin (LIK)
		mg/m³		Great Britain (UK)
	erm occupational exposure limit value term occupational exposure limit value			
	TIS International Limit Values (http://lir		/.de/)	
Monitoring a	nd observation processes: GESTIS An	alytical Methods	s (http://amcaw.ifa.dguv.de	e/)
8.2 Expo	sure controls			
Appropri	ate engineering controls			
Substand	ce/mixture related measure	s to preven	t exposure during	identified uses
	open windows and doors) is nee			
Personal	protection equipment			
Eye/face	protection			
Suitable	eye protection:			
	es with side protection			
goggles				
Recomm	ended eye protection articl	es		
DIN-/I	EN-Norms			
DIN E	N 166			
Skin prot	ection			
Suitable	material:			
Butyl caou	tchouc (butyl rubber)			
Breakthr	ough time: >480 min			
Thicknes	s 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-P3

remark

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

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

blue

Odour

characteristic

Odour threshold:

not determined

_		parameter	Method - source - remark
	Melting point/freezing point		not determined
	Boiling point or initial boiling point and boiling range	>260 °C	
	flammability		not determined
	Upper explosion limit		not determined
	lower explosion limit		not determined
	Flash point (°C)		not determined
	Auto-ignition temperature		not determined
	Decomposition temperature		not determined



	parameter	Method - source - remark
рН		not applicable
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
particle characteristics		not determined
Dynamic viscosity		not determined
flow time		not determined
Oxidising liquids		none
Oxidising solids		not determined
Oxidising gas		not determined
9.2 Other information		

No data available

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 known hazardous reactions.

10.4 Conditions to avoid

In case of warming: Danger of bursting container.

10.5 Incompatible materials

Oxidising agent, strong Acid Alkali (lye)

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

Aspiration hazard

Assessment/classification

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

Acute toxicity

Acute dermal toxicity

ingredient reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Acute dermal toxicity 22800 mg/kg

Species:

Rabbit

source GESTIS

Assessment/classification

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

Acute inhalation toxicity (gas)

ingredient 2,3-epoxypropyl o-tolyl ether

Acute inhalation toxicity (gas) 6,09 mg/L

Effective dose LC50: Exposure time 4 h

Species:

Rat

source

National Technical Information Service. Vol. OTS0534658

Acute oral toxicity

ingredient reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Acute oral toxicity 11400 mg/kg

Species: Rat

source GESTIS

GESTIS

ingredient 2,3-epoxypropyl o-tolyl ether

Acute oral toxicity 4000 mg/kg

Effective dose

LD50:

Species:

Rat

source

National Technical Information Service. Vol. OTS0571540

Serious eye damage/irritation



Assessment/classification Irritant.

skin corrosion/irritation

Assessment/classification Irritant.

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

Evidence exists for human germ cell mutagenicity.

Carcinogenicity

remark

No indication of human carcinogenicity.

Reproductive toxicity

Practical experience/human evidence No indications of human reproductive toxicity exist.

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 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Acute (short-term) fish toxicity 3,1 mg/L

Effective dose

LC50:

Test duration 96 h

species

Pimephales promelas (fathead minnow)

Acute (short-term) toxicity to crustacea

ingredient reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Acute (short-term) toxicity to crustacea >1,4 - <1,7 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.

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	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable



	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	r not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

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)

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight: 10 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)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.