

### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: WLK (Binder)

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Revised on: 17.09.2015

Version: 2.1

#### **1.) Identification of the substance/mixture and of the company/undertaking**

##### **Product identifier:**

Trade name: WLK (Binder)

Uses of the substance/mixture: Industrial use

Supplier: Fischer Elektronik GmbH & Co. KG  
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**Responsible for SDS:** technical service department, [reach@fischerelektronik.de](mailto:reach@fischerelektronik.de)

**Emergency information:** Poison control centre Bonn D-53113 Bonn

**Emergency telephone no.:** +49 (0) 228 19240

#### **2.) Hazards identification**

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

H302+H332 Harmful if swallowed or inhaled.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H411 Toxic to aquatic life with long lasting effects.

Labelling according to Regulation (EC) No. 1272/2008

Symbol(s):



GHS07



GHS08



GHS09

Signal word: Warning

Hazard

information:

Limited evidence of a carcinogenic effect. Product irritates the eyes and skin. Product may cause sensitisation by skin contact. Do not allow product to reach sewers. Product is hazardous to waters. Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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


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#### 3.) Composition/Information on ingredients

Chemical characterization: Preparation

Description: Epoxy-containing mixture with low proportions of pigments.

#### Hazardous ingredients:

CAS no.	Designation as per EC Directive	Content	Symbol	H phrases
2426-08-6	2-(Butoxymethyl)oxirane	< 12%		H 226
				H 302
				H 317
				H 332
				H 335
				H 341
25068-38-6	Bisphenol-A-epichlorohydrin resin (MW ≤ 700)	< 65 %		H 351
				H 412
				H 315
				H 317
1344-28-1	Aluminium oxide	>50%		H 319
				H 411

#### Additional information:

2-(Butoxymethyl)oxirane: EINECS 219-376-4, INDEX 603-039-00-7, RTECS TX 4200000; BRN 103668, ZVG 38670, TRGS 901 No. 86, TRGS 906 No. 3 )

Bisphenol-A-epichlorohydrin resin: EC no. 500-033-5, INDEX 603-074-00-8, ZVG 510071

#### 4.) First-aid measures

##### Description of first-aid measures

General information: Remove product from skin. Remove contaminated clothing. Seek medical advice if symptoms occur or in case of doubt.

In case of inhalation: Upon inhalation, introduce fresh air and keep airways free. If required, administer rescue breathing and oxygen. If feeling unwell, consult a physician and show this data sheet.

Contact with skin: Thoroughly rinse affected parts of skin with water first. Then rewash with water and soap. Avoid intensive rubbing. Consult a physician if irritation persists. Only reuse contaminated clothing after cleaning.

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**Contact with eyes:** Thoroughly rinse the affected eye with water for a longer period of time (30 minutes). If available, use an eye shower (eye bath) that is connected to the tap. Spread eyelids wide apart if possible against the strong blink reflex. Remove contact lenses, if applicable. Ophthalmologic treatment is required.

**Ingestion:** If conscious, drink plenty of water immediately for dilution and induce vomiting. Consult a physician immediately and show package or label or data sheet.

**Advice for physicians:** Symptomatic treatment. See also safety data sheet.

#### **5.) Fire-fighting measures**

##### **Extinguishing media:**

**Suitable extinguishing media:** Carbon dioxide, foam (alcohol-resistant), dry powder, spray water jet.

**Extinguishing media which may not be used for safety reasons:** Full water jet

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

In case of fire, formation of carbon monoxide, carbon dioxide and pyrolysis products (smoke). Bursting of containers likely in the event of fire!

##### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus (SCBA) and, in case of massive pollutant formation, tightly sealing protective coverall.

#### **6.) Accidental release measures**

**Personal precautions:** Use personal protective equipment. Ventilate rooms thoroughly. Warn uninvolved persons and evacuate them from the danger zone. Avoid skin contact with product.

**Environmental precautions:** Do not allow the product to pollute sewers, open waters or the soil. Contain larger spills. Apply suitable measures for preventing the product from spreading in the environment.

**Clean-up / absorption methods:** Absorb spilled product mechanically with an absorbent, inert material (e.g. universal binder, chemicals binder). Then transfer contaminated absorbent to approved containers and dispose of appropriately. Possibly clean up with soap and water afterwards.

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Additional information:

The recommended personal protective equipment must be worn for absorption and removal. Secure leaking containers and move them to a well-ventilated area. Do not inhale vapours.

**7.) Handling and storage**

**Handling**

Advice for safe handling:

Comply with safety advice and instructions for use. Always store in original container. Ensure good ventilation / air extraction at workplace. Do not inhale vapours. Avoid contact with skin, eyes and clothing.

Advice for preventing fires/explosions:

Product is not explosive. Product is flammable. Keep away from open flames and sources of ignition. Protect from heat. In case of fire, cool containers with water. Risk of bursting!

**Storage**

Storage room and container requirements:

Comply with storage requirements as per Water Resources Act for water-endangering substances and VbF Regulation for Flammable Liquids. Keep containers tightly sealed and store upright. Ensure good room ventilation.

Storage with other products:

Do not store with substances that support combustion (oxidizers), or strong acids and bases (amines). Keep away from food, beverages, tobacco and feed.

Further information on storage conditions:

Store in a dark and dry place. Recommended storage temperature 15°C - 25°C. Avoid all kinds of ignition sources.

Storage category:

10(TRGS510)

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**8.) Exposure controls / personal protection**

*Ingredients with workplace-related limits to be monitored*

CAS no.	Name	Type	Limit	Unit	Comment
2426-08-6	2-(Butoxymethyl)oxirane				H; (51)
25068-38-6	Bisphenol-A-epichlorohydrin resin				No limits

Additional information:

H = skin resorptive; (51) = Handling of this substance requires the elaboration of a work area analysis with the stated concentration - no limit within the meaning of the Ordinance on Hazardous Substances - needing to serve as an indication for the implementation as per Technical Rules for Hazardous Substances TRGS 402.

**Exposure controls**

Ensure good ventilation. This can be ensured by means of local air extraction or general outgoing air.

**Personal protective equipment**

General protection and hygiene measures:

The customary precautions for handling chemicals must be complied with. Do not eat, drink or smoke while at work. Wash hands before breaks and after work. Preventive skin protection is recommended. Immediately take off soiled or drenched work clothing.

Respiratory protection:

Not required if room is well-ventilated. Breathing protection is recommended in unventilated rooms (filter type for organic substances).

Hand protection:

Use chemicals-resistant protective gloves made from neoprene or latex.

Eye protection:

Wear tightly sealing, break-proof safety-glasses with side protection, or face protection.

Body protection:

The wearing of work clothing / laboratory clothing is recommended. Emergency shower.

**Environmental exposure controls**

Do not allow the product to pollute sewers, open waters or the soil. Contain larger spills. Apply suitable measures for preventing the product from spreading in the environment.

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**9.) Physical and chemical properties**

**Information on the basic physical and chemical properties:**

Form	liquid, viscous
Colour	blue
Odour	mild, aromatic
pH-value (undiluted)	n/a
Melting point / range	not determined
Boiling point / range	not available
Flash point	> 100°C
Flammability (solid / gaseous)	
Ignition temperature	not determined
Self-ignitability	product is not self-ignitable
Explosion hazard	product is not explosive
Lower explosive limit	n/a
Upper explosive limit	n/a
Vapour pressure [mmHg]	< 1 (at 25°C)
Density [g/ml]	2.0 – 2.2 (at 25°C)
Solubility: in water	insoluble
in organic solvents	soluble
Distribution coefficient (n-octanol / water)	not determined
Viscosity dynamic	not determined
kinematic	not determined
Solvent separation test	no information provided
Solvent content [%]	no information provided
Further information	no information provided

**10.) Stability and reactivity**

Conditions to avoid:

Protect from heat and open flames.

Materials to avoid:

Strong oxidants, acids and bases. Polymerizations can be triggered with amines, mercaptans and imidazoles.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, aldehyde and other organic decomposition products.

Further information:

Intended use will not lead to any undesirable reactions (polymerization). Ensure appropriate handling and storage.

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#### **11.) Toxicological information**

##### **Acute toxicity**

##### Toxicological data:

LD50,	oral	rat:	11.4 g/kg
LD50,	dermal	rabbit:	788 mg/kg
LC50,	inhalative	mouse:	> 3500 ppm/4h

Specific symptoms in animal tests: no data available

Primary irritant / corrosive effect: irritates the eyes, skin and airways.

Sensitization: sensitization through skin contact possible.

Further information (on experimental toxicology): no data available

##### **Experience in human beings**

Product is harmful to health if swallowed. Product vapours can irritate the airways and cause nausea and headaches. Product irritates the eyes and can cause blurred vision, burning and tears. Product irritates the skin. Prolonged or repeated exposure to the liquid causes degreasing and dryness of the skin through to skin inflammation. Product causes sensitization and allergic reactions of the skin with symptoms such as rashes, itching and swelling of the extremities. Product can aggravate pre-existing skin and eye conditions.

##### **Additional toxicological advice (particularly for preparations)**

Departure from legal classification as per Directive 67/548/EEC Annex I. Butoxy-2,3-epoxypropane is nationally classed as mutagenic category 2 (M2). According to the EC Commission, 1- butoxy-2,3-epoxypropane is classed as carcinogenic category 3 (K3) and mutagenic category 3 (M3).

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**12.) Ecological information**

**Information on elimination (persistence and degradability)**

Further information: no information provided

**Behaviour in environmental compartments**

Further information: no information provided

**Ecotoxic effects**

Aquatic toxicity: no data available

Comment: no information provided

Behaviour in sewage plants: no information provided

**Further ecological information**

COD value: comment: no information provided

BOD5 value: comment: no information provided

AOX value: comment: no information provided

According to recipe, contains the following heavy metals and compounds as per EC Directive 76/464/EEC:

no information provided

General information: Do not allow product to pollute sewers, open waters or soil.

**13.) Disposal considerations**

**Product**

Recommendation:

Disposal in keeping with local official waste disposal regulations.

Must not be disposed of as domestic waste. Supervisable waste as per section 41.1 of the Recycling and Waste Disposal Act.



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Waste declaration as per Federal States Waste Working Group LAGA, European Waste Catalogue and OECD List

Waste code number 55905	Waste designation (as per LAGA) Glue/adhesive, unhardened	
EWC code 080402	EWC designation (as per Directive 751442/EEC) Old adhesives and sealants not containing any halogenated solvents	
OECD List Amber list	OECD code AC 090	OECD designation Waste from production, formulation and use of resins, latex, plasticisers, glues and adhesives

**Uncleaned packages**

Recommendation:

Uncleaned empty packages need to be disposed of like the product and/or can be returned to the manufacturer or distributor. See section 14 of the Waste Management Act and section 6 of the Packaging Ordinance. Recovery or recycling is possible after cleaning.

Recommended detergent: no information provided

**14.) Transport information**

**Overland transport ADR/RID (road – rail)**

Class	9
Packing group	III
Hazard number	90
UN number	3082
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A / Epichlorohydrin resin)
Comment:	Special regulations 274 and 601; limited quantities LQ 7

**Marine transport IMDG:**

IMDG/Maritime Dang. Goods Reg. class:	9
UN number:	3082
Packing group:	III
EmS number:	
Marine pollutant:	Yes; (P)
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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#### Air transport as per ICAO-TI / IATA-DGR:

ICAO/IATA class:	9
UN/ID number:	3082
Packing group:	III
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### 15.) Regulatory information

**Chemical safety assessment** no information provided

#### **Labelling as per EC regulations**

Classification as per Regulation (EC) No. 1272 / 2008



(GHS07 - Irritant)



(GHS08 - Health hazard)



(GHS09 - Environmental hazard)

Signal word: Warning

Hazard-determining component(s) of labelling:

2-(Butoxymethyl)oxirane

#### H phrases:

H 302+332	Harmful if swallowed or inhaled.
H 317	May cause an allergic skin reaction.
H 341	Suspected of causing genetic defects.
H 351	Suspected of causing cancer.
H 411	Toxic to aquatic life with long lasting effects.

#### P phrases:

P 261	Avoid breathing dust and spray.
P 273	Avoid release to the environment.
P 281	Use personal protective equipment as required.
P 302+352	IF ON SKIN: Wash with plenty of soap and water.
P 304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P 314	Get medical advice/attention if you feel unwell.

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Special labelling for specific preparations:

To be stated supplementarily in accordance with Regulation (EC) No.1272/2008: EUH208 "Contains 1-butoxy-2,3-epoxypropane. May produce an allergic reaction."

**Further EU regulations**

RoHS Restriction of certain Hazardous Substances; Directive 2011/65/EU.  
This product contains no substances listed in Annex III of the Directive.

**National regulations:**

Additional classification as per Ordinance on Hazardous Substances:

none

Employment restrictions advice:

see sections 8 - 10 of the Ordin. on Hazardous Substances

Classification as per Ordinance on Flammable Liquids:

A III

Technical Instructions on Air Quality Control:

Mass flow 0.15 g/h,  
Mass concentration 0.05 mg/m<sup>3</sup>

Water hazard class:

2 (water hazard; classification as per Annex III/IV)

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Other regulations, restrictions, prohibition orders, literature:

Regulation (EC) No. 1907 / 2006 (REACH)  
Regulation (EC) No. 1272 / 2008  
Directive 67/548/EEC  
Directive 1999/45/EC Annex V  
Directive 76/769/EEC Annex I  
Directive 98/24/EC Article 4  
Announcement 220, Safety Data Sheet  
Chemicals Act (latest version)  
TRGS 400, Risk assessment for activities involving hazardous substances;  
TRGS 540; Sensitizing substances  
TRGS 555; Working instruction and information for workers as per section 14 of the  
Ordinance on Hazardous Substances  
TRGS 900; "Occupational limit values"  
TRGS 903; "Biological limit values"  
Ordinance on Hazardous Substances  
ADR and/or Regulation on Road and Rail Transport of Hazardous Goods GGVS/E  
Registry of Toxic Effects of Chemical Substances, U.S. Department of Health and Human  
Services, (NIOSH) Washington;  
REACH (Registration, Evaluation, Authorization of Chemicals), EU Chemicals Regulation,  
1/6/2007

**16.) Further information**

The information provided is based on our present state of knowledge, but is no assurance of product properties and does not establish a contractual legal relationship.

This safety data sheet has been created on the basis of the information provided by the manufacturer.

*Department issuing the safety data sheet: Technical service department*

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## General information



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