

Safety Data Sheet according to Directive 1907/2006 (REACH)/(EU)1272/2008/(EC)215/830**1. Identification of the Substance/Mixture and the Company/Undertaking****1.1. Product Identifier:**

Trade name of the product: Epoxy Resin
Article Number: KL1201-0, KL1202-0

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Intended Use(s):
for laminating orthoses

1.3. Details of the Supplier of the Safety Data Sheet

Manufacturer: CWT Vertrieb- und Verwaltungs-GmbH,
Braunsberger Feld 13,
51429 Bergisch Gladbach (Germany)

Phone: +49 (0) 2204 703 96 46
Fax: +49 (0) 2204 703 69 89

Contact: CWT Vertriebs- und Verwaltungs-GmbH

Phone: +49 (0) 2204 703 96 46

Supplier: FIOR & GENTZ Gesellschaft für Entwicklung und
Vertrieb von orthopädiotechnischen Systemen mbH
Dorette-von-Stern-Straße 5
21337 Lüneburg (Germany)

Phone: +49 4131 24445-0
Fax: +49 4131 24445-57
Email: info@fior-gentz.de
www.fior-gentz.com

1.4. Emergency Telephone Number:

Poison Information Centre Berlin
Poison Information Centre Bonn
Poison Information Centre Munich

Phone: +49 (0) 30 19240
Phone: +49 (0) 288 19240
Phone: +49 (0) 89 19240

2. Hazards Identification**2.1. Label Elements****Risk Phrases:**

Xi – irritant
N – dangerous for the environment

Labelling according to Regulation (EC) No. 1272/2009 [CLP/GHS]GHS07
AttentionGHS09
Environment**Signal Word**

Danger

Additional Hazard Information for Humans and the Environment:

See paragraph 15

3. Composition/Information on Components**3.1 Chemical Description**liquid, modified epoxy resin based on bisphenol A/F
medium molecular weight ≤ 700

Hazardous Ingredients	CAS No.	Content [%]	EINECS No.:	EG No.:
epoxy resin derivates	25068-38-6	15 < 30%	500-033-5	603-074-008
bisphenol A epichlorohydrin epoxy resin	25068-38-6	> 50%	500-033-5	603-074-00-8
bisphenol F epichlorohydrin epoxy resin	9003-36-5	25 < 50%	500-033-5	603-074-00-8
polyethylene glycol PEG	25322-68-3	5 < 15%	–	500-038-2
1-6-hexanediol higlycidyl ether	16096-31-4	5 < 15%	–	240-260-4

Hazard Symbols:Xi – irritant
N – dangerous for the environment (see paragraph 15)**R-Phrases**

R36/37/38; R43; R51/53

GHS

mixture

H:

315 317 319 411

P:

280 262 264 273

PBT and vPvB:

not applicable

4. First Aid Measures

General Information:	Immediately remove spilled and contaminated clothing.
After Inhalation:	In case of respiratory tract irritation, ensure sufficient supply of fresh air; consult your physician.
After Skin Contact:	Wash with plenty of water and soap; consult your physician, if necessary.
After Eye Contact:	Flush eyes thoroughly with running water holding eyelids open; consult your physician immediately.
After Ingestion:	Clean mouth with water and drink plenty of water afterwards. Immediately seek medical attention.

5. Firefighting Measures

Suitable Extinguishing Media:	dry powder, carbon dioxide, alcohol-resistant foam, spray of water
Special Protective Equipment:	Wear full protective equipment; breathing apparatus with independent air supply.
Further Information:	In case of fire, carbon monoxide (CO) and traces of hydrogen chloride (HCl) can develop. Consult local authorities for disposal of extinguishing water and firefighting residues.

6. Accidental Release Measures

Personal Precautions:	Ensure adequate ventilation. Keep unprotected personnel away.
Environmental Precautions:	Prevent run-off into sewerage/surface water/ground water.
Clean-Up Methods:	Remove mechanically; residues can be covered with inert materials, e.g. sawdust, sand or calcium silicate hydrate. Further disposal by approved local waste agency.

7. Handling and Storage

7.1 Precautions for Safe Handling

Advice on Safe Handling:	Ensure well-ventilated work areas or exhaust ventilation. Air suction extraction required for spraying procedures. Avoid contact with skin and eyes.
Advice on Protection against Fire and Explosion:	Keep away from ignition sources. No smoking.

7.2 Conditions for Safe Storage Including the Consideration of any Incompatibilities

Requirements for Storage Rooms and Container:	Keep container cool (10-25°C) dry and tightly closed in a well-ventilated place.
Advice on Storage Compatibility:	not required
Storage Class:	10 (flammable liquids, VCI storage class)
VbF Class:	not applicable

8. Exposure Controls and Personal Protective Equipment

Additional Requirements for Technical Equipment:	Not elsewhere specified, see paragraph 7
General Precautions and Hygiene Measures:	No eating, drinking or smoking when handling the product. Wash hands before breaks and at the end of each workday. Avoid contact with skin and eyes.
Personal Protective Equipment	
Respiratory Protection:	Required in case of spraying procedures and bad ventilation.

Hand Protection:	protective gloves required
Glove material:	NBR, butyl rubber, FKM or natural rubber
Eye protection:	tightly fitting safety glasses
Body Protection:	protective clothing

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:	liquid
Colour:	clear
Odour:	odourless
Change in State	
Melting Point / Melting Range:	not determined
Boiling Point / Boiling Range:	not determined
Thermal Decomposition:	190–200°C
Flash Point:	160°C (DIN 51758)
Explosive Limits:	not determined
Ignition Temperature:	not determined
Vapour Pressure:	at 20°C < 1 (mbar)
Density:	at 20°C approx. 1.12–1.18g/cm ³
Water Solubility:	insoluble
pH Value:	not determined
Partition Coefficient	not determined
N-Octanol/Water (log POW):	
Viscosity at 20°C:	1000–1200mPa *s

10. Stability and Reactivity

Thermal Decomposition / Conditions to Avoid:	none under recommended handling
Materials to Avoid:	strong acids, bases and other oxidizing agents; heat; open flames
Hazardous Decomposition Products:	irritant gases/vapours

11. Information on Toxicology

11.1. Information on Toxicological Effects

Acute Toxicity:

Classification Relevant LD/LC50 Value:	LD 50 oral rats > 11.200mg/kg
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25068-38-6**Bisphenol A/F Epichlorohydrin Epoxy Resin**LC 50 inhaled
rat: > 2000mg/kg
MG <=700**Primary Irritant Effect:**

On the Skin:

On the Eyes:

Sensibilisation:Irritating to skin and mucosa
Irritant Effect
possible by skin contact.**Additional Toxicological Information:**

No evidence for mutagenic effects available

Special Properties/Effect:

If properly handled and used as intended, by our experience and the information we have, the product causes no harmful effects.

12. Ecological Information**12.1. Toxicity:****Ecotoxicological Effects:****Aquatic Toxicity:**

Test Procedure	Effect Concentration	Method/Analysis
Rainbow Trout	LC 50 (96h)	1.5–7.7mg/l
Daphnia Magna	EC 50 (24h)	1.1–3.6mg/l
Green Algae	EC 50 (96h)	220mg/l

Bisphenol A/F Epichlorohydrin Epoxy Resin MG <=700

12.2. Persistence and Degradability

The material is non-readily biodegradable.

General Information: As the chemical compound is non-biodegradable, a longer residence time in water is to be expected. Prevent run-off into ground water surface water or sewerage.**13. Disposal Information****13.1. Waste Treatment Methods****Product:**

epoxy resin

Recommendations for the product: Incinerate in approved facility in accordance with federal, state and local regulations.

European Waste Catalogue

Uncleaned packaging: Disposal of empty containers according to official regulations.
Recycling according to national legislation and environmental protection.

14. Transport Information

Land Carriage: – ADR/RID

Class:	9
Packaging Group:	III
Hazard Identification Number:	90
UN No.:	3082
Designation of the Good:	Environmentally hazardous substance, liquid, n.o.s. (epoxide derivatives)

Maritime Transport: – IMDG/GGV Maritime

Class:	9
UN No.:	3082
PG:	III
EMS:	no
MPO:	yes
MFAG:	no
ADNR Cl.:	-

Declaration:

Environmentally hazardous substance, liquid, n.o.s. (epoxide derivatives)

Air Transport: – ICAO/IATA:

Class:	9
UN/ID No.:	3082
PG:	III

Declaration Air:

Environmentally hazardous substance, liquid, n.o.s. (epoxide derivatives)

15. Legal Regulations:

Classification according to Hazardous Substances Ordinance and EC Directives

Code letter: Xi – irritant
N – dangerous for the environment

Risk Phrase: GHS09, GHS07

R-Phrases:	R36/37/38 R42/43 R51/53	Irritating to respiratory system, eyes and skin. May cause sensitisation by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-Phrases:	S24 S26 S37/38/39 S45 S61	Avoid contact with skin. In case of contact with eyes, immediately rinse with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. After contact with skin, immediately wash with plenty of water and soap. In case of accident or if you feel unwell, immediately seek medical advice. Avoid release to the environment. Refer to special instructions.
Classification of specified preparations:		Contains epoxy-containing compounds.
National Regulations: Hazardous incident ordinance:		Respect the quantity thresholds.
Classification according to VbF:		not applicable
Water Hazard Class:		WGK 2 water hazardous (decision of the KBwS)
Document of the APME:		"Epoxy Resins and Hardeners (Toxicology, Health, Safety and Environmental Aspects)"
BG Data Sheet:		M023 "Polyester and Epoxy Resins (ZH 1/301)"
CAS No.:		TCSA
25068-38-6		listed
25068-38-6		listed
9003-36-5		listed
25322-68-3		listed
16096-31-4		listed

16. Other Information

Applicable EC Directives

Preparation Directives (1999/45/EG), last adapted by Directive 2006/8/EC;
Substance Directive (67/548/EEC), last adapted by Directive 2006/121/EC.
According to Directive 1907/2006 (REACH)/(EU)1272/2008/(EC)215/830

Reasons for Adaptations:

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

Training Information:

Training based on operating instruction TRGS 555

Sources:

Information based on the information of former suppliers

<http://www.hvbg.de/d/bia/fac/stoffdb/index.html> UBMEDIA Expert Database: Hazardous Material
Transport (as amended) <https://www.umweltbundesamt.de/en>

The information contained herein are based on our current knowledge and experience. The information does not constitute any guarantee with regard to product properties and does not create a contractual legal relationship.