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

1.1 Product identifier

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EpoColor Resin Article number 20-8143-032

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

1.2.1 Relevant uses

Mounting material for metallographic specimens

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company ITW Test & Measurement GmbH

In der Steele 2

40599 Düsseldorf / GERMANY Phone 0800 707 6273 Fax 0800 707 6274

Homepage www.buehler-met.de E-mail info.uk@buehler.com

Address enquiries to

Technical informationinfo.uk@buehler.comSafety Data Sheetsdb@chemiebuero.de

1.4 Emergency telephone number

Company 0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Sens. 1: H317 May cause an allergic skin reaction.

Eye Irrit. 2: H319 Causes serious eye irritation.

Skin Irrit. 2: H315 Causes skin irritation.

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Signal word

The product is classified and required to be labelled in accordance with EC-Directives

Hazard pictograms



WARNING

Contains: [[(2-Ethylhexyl)oxy]methyl]oxirane

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular

weight ≤ 700)

Trimethylolpropan triacrylate

Hazard statements H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P261 Avoid breathing vapours / spray.

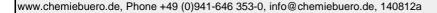
P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P337+P313 If eye irritation persists: Get medical advice / attention.

P501 Dispose of contents / container to in accordance with local / regional / national /

international regulation.





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2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
60 - 100	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
	CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
10 - 30	[[(2-Ethylhexyl)oxy]methyl]oxirane
	CAS: 2461-15-6, EINECS/ELINCS: 219-553-6
	GHS/CLP: Skin Sens. 1: H317 - Skin Irrit. 2: H315
5 - 10	Trimethylolpropan triacrylate
•	CAS: 15625-89-5, EINECS/ELINCS: 239-701-3, EU-INDEX: 607-111-00-9
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317

Comment on component parts Substan

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not

be used

Full water jet.



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5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO) Carbon dioxide (CO2) phenol compounds

5.3 Advice for firefighters

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Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

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

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous

earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Store in a dry place.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection Safety glasses.

Hand protection Butyl rubber, >480 min (EN 374).

The details concerned are recommendations. Please contact the glove supplier for further

information.

Skin protection Light protective clothing of plastic material.

Other Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection Not required under normal conditions.

If ventilation is insufficient, wear respiratory protection.

Short term: filter apparatus, filter A.

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liauid Color yellowish Odor characteristic

Odour threshold No information available.

pH-value not applicable pH-value [1%] not applicable

Boiling point [°C] 260 Flash point [°C] 93.33

Flammability (solid, gas) [°C] not applicable

Lower explosion limit No information available. Upper explosion limit No information available.

Oxidizing properties

Vapour pressure/gas pressure [kPa] < 0,1 mmHg (20 °C) 1,10 (20 °C / 68,0 °F) Density [g/ml]

Bulk density [kg/m³] not applicable Solubility in water immiscible

Partition coefficient [n-octanol/water] No information available.

not applicable Viscosity

Relative vapour density determined > 1

in air

< 1

Evaporation speed

Melting point [°C] No information available. Autoignition temperature [°C] No information available. Decomposition temperature [°C] No information available.



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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents. Reactions with strong acids and alkalies. Reactions with amines.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed. In the event of fire: See SECTION 5.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product		
ATE-mix, dermal, Rat: > 2000 mg/kg.		
ATE-mix, oral, Rat: > 5000 mg/kg.		

Range [%]	Substance
60 - 100	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LD50, dermal, Rabbit: 22800 mg/kg bw (GESTIS).
	LD50, oral, Rat: 11400 mg/kg bw (GESTIS).
5 - 10	Trimethylolpropan triacrylate, CAS: 15625-89-5
	LD50, dermal, Rabbit: >5000 mg/kg bw (IUCLID).
	LD50, oral, Rat: >5000 mg/kg bw (IUCLID).

Serious eye damage/irritation Irritant Skin corrosion/irritation Irritant Respiratory or skin sensitisation Sensitizing.

Specific target organ toxicity —

single exposure

Specific target organ toxicity —

repeated exposure

Mutagenicity Reproduction toxicity Carcinogenicity

General remarks

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

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

Toxicological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation

directive.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
60 - 100	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LC50, (96h), Pimephales promelas: 3,1 mg/l (Lit.).
	EC50, (48h), Daphnia magna: 1,4-1,7 mg/l (Lit.).
	IC50, Bacteria: > 42,6 mg/l/18h (Lit.).

12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

12%, 28d (CAS 25068-38-6, OECD 302B) The product is not readily biodegradable.

Biological degradability 12.3 Bioaccumulative potential

BCF: 100 - 3000 (CAS 25068-38-6) logPow: 3,242 (CAS 25068-38-6)



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12.4 Mobility in soil

Koc: 1.800 - 4.400 (CAS 25068-38-6)

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive.

The product contains organically bound halogen in accordance with the formulation.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

150101 150102 150104

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

Article number 20-8143-032

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UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III

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UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III

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14.2 UN proper shipping name

Transport by land according to

ADR/RID

- Classification Code

- Label

51

M6

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

- Classification Code

- Label



Marine transport in accordance with **IMDG**

- EMS

MARINE POLLUTANT

F-A, S-F

- Label





- IMDG LQ 5 I

Air transport in accordance with IATA UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resinmixture) 9 III

- Label





14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

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SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

EH40/2005 Workplace exposure limits (Second edition, published December 2011). NATIONAL REGULATIONS (GB):

CHIP 3/ CHIP 4

not applicable

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

15.2 Chemical safety assessment

- VOC (1999/13/CE)

16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation. H319 Causes serious eye irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

FC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)



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Modified position

SECTION 2 been added: P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

SECTION 2 been added: P337+P313 If eye irritation persists: Get medical advice / attention. SECTION 2 been added: P333+P313 If skin irritation or rash occurs: Get medical advice / attention

SECTION 2 deleted: P314 Get medical advice / attention if you feel unwell.

SECTION 2 been added: P261 Avoid breathing vapours / spray.

SECTION 6 been added: Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

SECTION 8 been added: If ventilation is insufficient, wear respiratory protection.

SECTION 8 been added: Short term: filter apparatus, filter A.

SECTION 9 deleted: not applicable

SECTION 9 been added: No information available.

SECTION 11 deleted: not determined SECTION 11 deleted: not determined SECTION 11 been added: Irritant SECTION 11 deleted: not determined SECTION 11 been added: Irritant SECTION 11 been added: Sensitizing.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 deleted: not determined SECTION 12 deleted: not determined

SECTION 12 been added: No information available. SECTION 16 been added: Calculation method

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