


1 Identification of the substance / preparation and of the company
1.1 Product identifier

EpoMet/EpoMet F
Article number 20-3380-xxx, 20-3381-070

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

See product designation

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet
Company

Buehler GmbH

In der Steele 2
 D-40599 Düsseldorf / GERMANY
 Phone: 0800 707 6273
 Fax: 0800 707 6274
 Homepage: www.buehler-met.de/en/
 E-mail: sales@buehler.co.uk

Address enquiries to
Technical information

sales@buehler.co.uk

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

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

2 Hazards identification
2.1 Classification of the substance or mixture
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Carc. 2, H351
 Skin Sens. 1, H317
 Aquatic Chronic 2, H411
 Eye Irrit. 2, H319
 Skin Irrit. 2, H315

Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Xn-N, R 40-36/38-43-51/53

2.2 Label elements
Hazard symbols


Harmful



Dangerous for the environment

Contains:

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)

Diantimony trioxide

R-phrases

R 40: Limited evidence of a carcinogenic effect.

R 36/38: Irritating to eyes and skin.

R 43: May cause sensitisation by skin contact.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

S 22: Do not breathe dust.

S 24/25: Avoid contact with skin and eyes.

S 28.2: After contact with skin, wash immediately with plenty of water and soap.

S 36/37: Wear suitable protective clothing and gloves.

S 61: Avoid release to the environment. Refer to special instructions, safety data sheets.

Special labelling

Contains epoxy-containing compounds. Observe manufacturer's instructions.



2.3 Other hazards

Physico-chemical hazards	See chapter 10.
Other hazards	none

3 Composition / Information on ingredients

3.1 Substances

The product in question is a mixture.

3.2 Mixtures

Range [%]	Substance
50 - <80	Silica, vitreous CAS: 60676-86-0, EINECS/ELINCS: 262-373-8 GHS/CLP: not determined
25 - <40	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 EEC: Xi-N, R 36/38-51/53-43
1 - <5	Diantimony trioxide CAS: 1309-64-4, EINECS/ELINCS: 215-175-0, EU-INDEX: 051-005-00-X GHS/CLP: Carc. 2, H351 EEC: Xn, R 40
1 - <5	2,4,6-Tris(dimethylaminomethyl)phenol CAS: 90-72-2, EINECS/ELINCS: 202-013-9, EU-INDEX: 603-069-00-0 GHS/CLP: Acute Tox. 4, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 EEC: Xn, R 22-36/38
1 - <3	Quartz (< 10µm) CAS: 14808-60-7, EINECS/ELINCS: 238-878-4 GHS/CLP: STOT RE 1, H372b EEC: Xn, R 48/20

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for 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	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Consult a doctor immediately. Induce the patient to vomit of his own accord only if fully conscious. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Keep people away and stay on the upwind side.
Avoid dust formation.
Use breathing apparatus if exposed to dust.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

Dust deposits that cannot be avoided must be taken up regularly.
Provide vacuuming if dust raised.
Avoid the formation and deposition of dust.
Take precautionary measures against static discharges.
Dust can form an explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Store in a dry place.

7.3 Specific end use(s)

See product use, Chapter 1.2



8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
50 - <100	Silica, vitreous / - ppm, 0,08 mg/m ³ , respirable dust
1 - <20	Diantimony trioxide / - ppm, 0,5 mg/m ³ , Sb
1 - <10	Quartz (< 10µm) / - ppm, 0,1 mg/m ³ , respirable, crystalline
< 1	Carbon Black / - ppm, 3,5 mg/m ³ , -

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Butyl rubber, >120 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. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Remove soiled or soaked clothing immediately.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P3.
Thermal hazards	See chapter 7.
Delimitation and monitoring of the environmental exposition	not determined

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder
Color	black
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	199-260
Flash point [°C]	> 149
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure [kPa]	not determined
Density [g/ml]	2,09 (20°C / 68,0°F)
Bulk density [kg/m³]	not determined
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	> 1
Evaporation speed	< 1
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature	not determined



9.2 Other information

none

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

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

No informations available.

10.5 Incompatible materials

See chapter 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <5	2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
	LD50, dermal, Rat: 1280 mg/kg IUCLID.
	LD50, oral, Rat: 1916-2455 mg/kg IUCLID.
1 - <5	Diantimony trioxide, CAS: 1309-64-4
	LD50, oral, Rat: >34000 mg/kg bw.
25 - <40	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LD50, oral, Rat: 13600 mg/kg.
1 - <3	Quartz (< 10µm), CAS: 14808-60-7
	LD50, oral, Rat: 500 mg/kg bw (IUCLID).

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks

Toxicological data are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.



12 Ecological information

12.1 Toxicity

Range [%]	Substance
1 - <5	Diantimony trioxide, CAS: 1309-64-4
	EC50, (72h), Selenastrum capricornutum: 67 mg/L.
	EC50, (48h), Daphnia magna: >1000 mg/L.
	LC50, (96h), Brachidanio rerio: >1000 mg/L.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

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

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

070214*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*
150101
150102
150104

14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name



14.2 UN proper shipping name

Classification according to ADR

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A Epoxy resin) 9 N III

- Classification Code

M7

- Label



- ADR LQ

5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Classification according to IMDG

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A Epoxy resin) 9 III
MARINE POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 kg

Classification according to IATA

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A Epoxy resin) 9 III

- Label



14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name



14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not determined

15 Regulatory information

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

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

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


16 Other informations
R-phrases (Chapter 03)

R 36/38: Irritating to eyes and skin.
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 43: May cause sensitisation by skin contact.
 R 40: Limited evidence of a carcinogenic effect.
 R 22: Harmful if swallowed.
 R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.

Hazard statements (Chapter 03)

H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.
 H351 Suspected of causing cancer.
 H302 Harmful if swallowed.

Observe employment restrictions for people yes

VOC (1999/13/CE) 0%

Customs Tariff not determined

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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