


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

	EpoBlue
	Article number 111068
IUPAC	C.I. Solvent Blue 35 (Anthraquinone-dye)
EINECS/ELINCS	241-379-4
CAS	17354-14-2

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

Dye for Epoxy

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
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Address enquiries to

Technical information	info.uk@buehler.com
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Company	0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
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SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with EC-directives.

Hazard pictograms	none
Signal word	none
Hazard statements	none
Precautionary statements	none

2.3 Other hazards

Physico-chemical hazards	In the supplied form the product is not explosive at all ; however the build-up of fine dust can lead to a risk of dust explosions.
Other hazards	none



SECTION 3: Composition / Information on ingredients

Product-type:

The product is a substance.

Range [%]	Substance
100	C.I. Solvent Blue 35 (Anthraquinone-dye)
	CAS: 17354-14-2, EINECS/ELINCS: 241-379-4

Comment on component parts

No dangerous components.
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Clothings soaked extensively with the product should be changed as soon as possible.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean 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

Seek medical advice immediately.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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

Foam.
Water spray jet.

Extinguishing media that must not be used

Dry powder.
Carbon dioxide.
Full water jet.

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons
Nitrogen oxides (NOx).

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Avoid dust formation.
Keep away from all sources of ignition.
Use personal protective equipment.



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 within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Avoid dust formation. Avoid formation of aerosols.

Dust deposits that cannot be avoided must be taken up regularly.

Take precautionary measures against static discharges.

Dust can form an explosive mixture with air.

Keep away from all sources of ignition.

Wash hands before breaks and after work.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

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

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored (GB)

8.1 Control parameters

not applicable



8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. To pay attention to dust limit value (ACGIH-2011: 10 mg/m ³ particle inhalable; 3 mg/m ³ particle respirable).
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >120 min (EN 374). Nitrile rubber, >120 min (EN 374).
Skin protection	Protective clothing.
Other	Avoid contact with eyes. Do not inhale dust.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P1.
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	powder
Color	dark blue
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	8,5-9,5 (10 g/L, 20°C)
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	not determined
Solubility in water	<1 mg/l (20°C)(92/69/EEC, A.6.)
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	120-122
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

Combustibility Index (VDI 2263-1): BZ1

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

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Range [%]	Substance
100	C.I. Solvent Blue 35 (Anthraquinone-dye), CAS: 17354-14-2
	LD50, oral, Rat: ~5000 mg/kg bw (OECD 401).

Serious eye damage/irritation	Non-irritant (rabbit). (OECD 405)
Skin corrosion/irritation	Non-irritant (rabbit). (OECD 404)
Respiratory or skin sensitisation	No information available.
Specific target organ toxicity — single exposure	No information available.
Specific target organ toxicity — repeated exposure	No information available.
Mutagenicity	No information available.
Reproduction toxicity	No information available.
Carcinogenicity	No information available.
Aspiration hazard	No information available.
General remarks	

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
100	C.I. Solvent Blue 35 (Anthraquinone-dye), CAS: 17354-14-2
	LC50, (24h), Oncorhynchus mykiss: ca. 590 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	Can be separated out mechanically in purification plants.
Biological degradability	30 - 50% Readily eliminable from water.



12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

not determined

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 is insoluble in water.

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

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

080112

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150101
150102
150104

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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 applicable

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).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	none
- VOC (1999/13/CE)	0%

15.2 Chemical safety assessment

A chemical safety assessment is not yet available for this substance.

SECTION 16: Other information

16.1 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
 EC50 = 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

16.2 Other information

Classification procedure



Modified position

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 6 been added: Use personal protective equipment.

SECTION 7 been added: Keep in a cool place. Store in a dry place.

SECTION 7 been added: Keep container in a well-ventilated place.

SECTION 7 been added: Dust deposits that cannot be avoided must be taken up regularly.

SECTION 7 been added: Avoid dust formation. Avoid formation of aerosols.

SECTION 8 been added: Nitrile rubber, >120 min (EN 374).

SECTION 8 been added: Protective clothing.

SECTION 9 been added: Combustibility Index (VDI 2263-1): [x]

SECTION 9 deleted: none

SECTION 11 been added: No information available.

SECTION 11 deleted: not determined

SECTION 12 been added: Can be separated out mechanically in purification plants.

SECTION 12 deleted: not determined

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