

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Number 2 Issuing Date 02-Sep-2016 Revision Date 13-Apr-2017

EGHS / English

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Pigment - Blue & Red

Product Code(s) 20-8506, 20-8507

(M)SDS Number 1346969_E

Chemical name

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

Recommended Use Laboratory Use Only.

Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer ITW Test & Measurement GmbH

Manufacturer Address Boschstraße 10

73734 Esslingen am Neckar / GERMANY

www.buehler-met.de www.buehler.fr www.buehler.co.uk

Phone number +49 (0) 711 4904690-0

E-mail Address lab.eu@buehler.com

1.4. Emergency telephone number

Global Access Code: 334545 Americas: +1 760 476 3962

Europe: +1 760 476 3961 Middle East/Africa: +1 760 476 3959

Asia Pacific: +1 760 476 3960

UK: +44 8 08 189 0979

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture



Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 2 - (H341)
Acute aquatic toxicity	Category 2 - (H401)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements



Signal word

Warning

Hazard Statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash hands thoroughly after handling
- P273 Avoid release to the environment
- P280 Wear protective gloves and eye/face protection
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P501 Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical name EC No C	AS No Weight-%	Classification according	REACH
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				to Regulation (EC) No. 1272/2008 [CLP]	registration number
Bisphenol A - Epichlorohydrin polymer	500-033-5	25068-38-6	70 - 80%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	
Oxirane, [(2-methylphenoxy)methy I]-	218-645-3	2210-79-9	20 - 30%	Skin Irrit. 2 (H315) Muta. 2 (H341) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC)

No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
Bisphenol A - Epichlorohydrin	25068-38-6	-
polymer		
Oxirane,	2210-79-9	-
[(2-methylphenoxy)methyl]-		

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic

reactions see a physician. Wash off immediately with soap and plenty of water for

at least 15 minutes.

Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and

easy to do. Continue rinsing. Get medical attention if irritation develops and

persists. Do not rub affected area.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything

by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see

section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES



5.1. Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous Combustion Products

Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use

personal protective equipment as required. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid

contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before

reuse. Remove contaminated clothing and shoes.



General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash hands before breaks

and immediately after handling the product. Wear suitable gloves and eye/face

protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store

locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Methods

(RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur,

wear safety glasses with side-shields. None required for consumer use.

Hand Protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Environmental exposure

controls

No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical stateViscous liquidAppearanceLight blue Red

Odor Sweet

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pH No data available

Melting / freezing point No data available None known

 $\begin{array}{ll} \mbox{Boiling point / boiling range} & > 200 \mbox{°C} \mbox{°C} \\ \mbox{Flash Point} & > 150 \mbox{°C} \mbox{°C} \end{array}$



Evaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 1.78

Water Solubility Immiscible
Solubility(ies) No data available

None known Partition coefficient: n-octanol/water No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known No data available None known **Viscosity**

9.2. Other information

Softening Point No information available Molecular Weight No information available

VOC Content (%) Not applicable

Liquid DensityNo information availableBulk DensityNo information availableParticle SizeNo information availableParticle Size DistributionNo information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous None under normal processing.

Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

10.6. Hazardous decomposition products



Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation

of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Irritating to eyes.

(based on components). May cause redness, itching, and pain. Causes serious

eye irritation.

Skin contact Specific test data for the substance or mixture is not available. Causes skin

irritation. (based on components). May cause irritation. Prolonged contact may

cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may

cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 7,795.00 mg/kg

Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A -	= 11400 mg/kg (Rat)	-	-
Epichlorohydrin polymer			
Oxirane,	= 4 g/kg (Rat)	-	= 6090 mg/m ³ (Rat) 4 h
[(2-methylphenoxy)methyl]-			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye

irritation

Classification based on data available for ingredients. Irritating to eyes.



Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity Classification based on data available for ingredients. Contains a known or

suspected mutagen.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	EU - Annex VI Mutagens
Oxirane, [(2-methylphenoxy)methyl]-	Muta. 2

Carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and Degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Bisphenol A - Epichlorohydrin polymer	Not applicable
Oxirane, [(2-methylphenoxy)methyl]-	Not applicable

12.6. Other adverse effects

Other adverse effects No information available.

Endocrine Disruptor Information



Chemical name	·	EU - Endocrine Disruptors - Evaluated Substances
Bisphenol A - Epichlorohydrin polymer	Group III Chemical	-

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

Contaminated packaging No information available.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-No. UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*, 9,

III 9

14.3 Hazard Class 9 **14.4 Packing Group** III

14.5 Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

Environmental hazard Yes
14.6 Special Provisions None
EmS-No. F-A, S-F

14.7 Transport in bulkNo information available

according to Annex II of MARPOL and the IBC Code

RID

14.1 UN-No. UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*, 9,

Ш

14.3 Hazard Class9ADR/RID-Labels914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special ProvisionsNoneClassification codeM6

ADR

14.1 UN-No. UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(BISPHENOL A - EPICHLOROHYDRIN POLYMER, OXIRANE,

[(2-METHYLPHENOXY)METHYL]-), 9, III, (E)

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special Provisions None 274, 335, 601, 375



Classification code M6
Tunnel restriction code (E)

IATA

14.1 UN-No. UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*

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14.3 Hazard Class 9 **14.4 Packing Group** III

14.5 Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

Environmental hazard Yes
14.6 Special Provisions None
EmS-No. F-A, S-F

14.7 Transport in bulk No information available

according to Annex II of MARPOL and the IBC Code

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14.3 Hazard Class9ADR/RID-Labels914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special ProvisionsNoneClassification codeM6

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14.1 UN-No. UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(BISPHENOL A - EPICHLOROHYDRIN POLYMER, OXIRANE,

[(2-METHYLPHENOXY)METHYL]-), 9, III, (E)

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special Provisions None 274, 335, 601, 375



Classification code M6
Tunnel restriction code (E)

IATA

14.1 UN-No. UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*, 9,

Ш

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special ProvisionsNone

Section 15: REGULATORY INFORMATION

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

Water hazard class (WGK) hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants

Not applicable.

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

Contact supplier for inventory compliance status. **TSCA DSL/NDSL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS ENCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AICS**

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H341 - Suspected of causing genetic defects if inhaled

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

H319 - Causes serious eye irritation

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110

1-800-572-6501

Issuing Date 02-Sep-2016

Revision Date 13-Apr-2017

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.





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End of Safety Data Sheet



