

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

Issuing Date 28-Feb-2017 Revision Date 22-Nov-2017

Revision Number 2

EGHS / English

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

1.1. Product identifier

Product Name EpoxiCure 2 Resin

Product Code(s) 20-3430-064, 20-3430-128

(M)SDS Number 1350306_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

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)
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

H411 - Toxic to aquatic life with long lasting effects

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

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see supplemental first aid instructions on this label)

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P313 - Get medical advice/attention

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	CAS-No	Percent	Classification according	REACH
				to Regulation (EC) No.	registration
				1272/2008 [CLP]	number
Bisphenol A -	500-033-5	25068-38-6	50 - 100%	Skin Irrit. 2 (H315)	
Epichlorohydrin polymer				Eye Irrit. 2 (H319)	
				Skin Sens. 1 (H317)	
				Aquatic Chronic 2	
				(H411)	
Oxirane.	219-553-6	2461-15-6	5 - 10%	No data available	



[[(2-ethylhexyl)oxy]methyl]-				
Oxirane, 2,2`-[(2,2-dimethyl-1,3-pr opanediyl)bis(oxymethyle ne)]bis-	17557-23-2	5 - 10%	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	

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,	2461-15-6	-
[[(2-ethylhexyl)oxy]methyl]-		
Oxirane,	17557-23-2	-
2,2`-[(2,2-dimethyl-1,3-propanediyl		
)bis(oxymethylene)]bis-		
Alkyl (C12-14) glycidyl ether	68609-97-2	-

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.

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.

For emergency responders Use personal protection recommended in Section 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.

General Hygiene Considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when

using this product. 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 LimitsThis 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.

None known

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 state Liquid Appearance Pale yellow

Odor Mild

ColorNo information availableOdor ThresholdNo information available

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

pH No data availableMelting / freezing point No data available

Boiling point / boiling range 165 °C

Flash Point 93 °C

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 1.099 Water Solubility Insoluble

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 No data available Kinematic viscosity None known No data available None known **Viscosity**

9.2. Other information

Softening Point
Molecular Weight
VOC Content (%)
Liquid Density
Bulk Density
Particle Size
Particle Size
No 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

Reactions

None under normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions.

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) 9,999.00 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)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A -	= 11400 mg/kg (Rat)	-	-
Epichlorohydrin polymer			
Oxirane,	= 7800 mg/kg (Rat)	-	-
[[(2-ethylhexyl)oxy]methyl]-			
Oxirane,	= 4500 mg/kg (Rat)	-	-
2,2`-[(2,2-dimethyl-1,3-propa			
nediyl)bis(oxymethylene)]bis			
-			

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 No information available.



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-ethylhexyl)oxy]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. Not Regulated 14.2 Proper Shipping Name **NOT REGULATED** 14.3 Hazard Class **NOT REGULATED** 14.4 Packing Group **NOT REGULATED** 14.5 Marine Pollutant Not applicable

None 14.6 Special Provisions

No information available 14.7 Transport in bulk

according to Annex II of MARPOL and the IBC Code

RID

14.1 UN-No. **NOT REGULATED** 14.2 Proper Shipping Name NOT REGULATED 14.3 Hazard Class **NOT REGULATED** 14.4 Packing Group NOT REGULATED 14.5 Environmental hazard Not applicable 14.6 Special Provisions None

ADR

14.1 UN-No. **NOT REGULATED** 14.2 Proper Shipping Name NOT REGULATED 14.3 Hazard Class **NOT REGULATED** 14.4 Packing Group **NOT REGULATED** 14.5 Environmental hazard Not applicable

14.6 Special Provisions None

IATA

14.1 UN-No. **NOT REGULATED** 14.2 Proper Shipping Name NOT REGULATED 14.3 Hazard Class NOT REGULATED 14.4 Packing Group **NOT REGULATED** 14.5 Environmental hazard Not applicable

14.6 Special Provisions None

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-No. Not Regulated 14.2 Proper Shipping Name **NOT REGULATED** 14.3 Hazard Class **NOT REGULATED NOT REGULATED** 14.4 Packing Group



14.5 Marine Pollutant Not applicable

14.6 Special Provisions None

14.7 Transport in bulk No information available

according to Annex II of MARPOL and the IBC Code

RID

14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable

14.6 Special Provisions None

ADR

14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable

14.6 Special Provisions None

IATA

14.1 UN-No.NOT REGULATED14.2 Proper Shipping NameNOT REGULATED14.3 Hazard ClassNOT REGULATED14.4 Packing GroupNOT REGULATED14.5 Environmental hazardNot applicable

14.6 Special Provisions None

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

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

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Leaend

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/

Issuing Date 01-Mar-2017

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



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End of Safety Data Sheet

