

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 26-Aug-2016 Revision Date 10-Nov-2016 Revision Number 2

EGHS / English

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

1.1. Product identifier

Product Name EpoHeat CLR Resin

Product Code(s) 20-3423-064

(M)SDS Number 1346411_E

Chemical name

Contains Phenol, polymer with formaldehyde, glycidyl ether, Alkyl (C12-14) glycidyl ether, Bisphenol A - Epichlorohydrin polymer

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

Recommended Use No information available.

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

UK: +44 8 08 189 0979

Asia Pacific: +1 760 476 3960

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

Contains Phenol, polymer with formaldehyde, glycidyl ether, Alkyl (C12-14) glycidyl ether, Bisphenol A - Epichlorohydrin polymer



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

P273 - Avoid release to the environment

P264 - Wash hands thoroughly after handling

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

P337 + P313 - If eye irritation persists: 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		Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Phenol, polymer with	_	28064-14-4	60 - 90%	Skin Irrit. 2 (H315)	Humber



formaldehyde, glycidyl ether				Skin Sens. 1 (H317) Eye Irrit. 2 (H319)Chronic 2 (H411)	
Alkyl (C12-14) glycidyl ether	271-846-8	68609-97-2	5 - 15%	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	
Oxirane, [[(2-ethylhexyl)oxy]methyl]-	219-553-6	2461-15-6	0 - 10%	No data available	
Bisphenol A - Epichlorohydrin polymer	500-033-5	25068-38-6	0 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) 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)

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 Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. May cause an allergic skin reaction. In the case

of skin irritation or allergic reactions see a physician.

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

minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if

irritation develops and persists.

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 Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact

with skin, eyes or clothing.

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 physiciansMay cause sensitization in susceptible persons. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media



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Suitable Extinguishing Media Dry chemical, Carbon dioxide (CO2), Water spray, Alcohol resistant foam.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. 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 Evacuate personnel to safe areas. Use personal protective equipment as required.

See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. 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 Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Do not touch or walk through spilled

material. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with

inert absorbent material. Pick up and transfer to properly labeled containers.

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

heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary



measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. 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 Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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. Keep away

from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local

regulations. 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 Tight sealing safety 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.

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

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 Clear
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

Boiling point / boiling range $> 150^{\circ}\text{C} ^{\circ}\text{C}$ Flash Point $> 93^{\circ}\text{C} ^{\circ}\text{C}$

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

Upper flammability limit No data available

Lower flammability limit

No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 1.13
Water Solubility Immis

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 400 - 900 cps **Viscosity** None known

9.2. Other information

Softening Point
Molecular Weight
No information available
No information available
Liquid Density
No information available
Bulk Density
No information available
Particle Size
No information available
No information available
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 None under normal processing.

Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid



Heat, flames and sparks.

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) 12,181.00 mg/kg

Unknown acute toxicity

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

84 % 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
Alkyl (C12-14) glycidyl ether	= 17100 mg/kg (Rat)	-	-
Bisphenol A -	= 11400 mg/kg (Rat)	-	-



Epichlorohydrin polymer

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.

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 NOT REGULATED 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 14.6 Special Provisions None 14.7 Transport in bulk

No information available

according to Annex II of MARPOL 73/78 and the IBC Code

RID NOT REGULATED 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 Environmental hazard Not applicable 14.6 Special Provisions None

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



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Section 15: REGULATORY INFORMATION

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

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

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

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/

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

Disclaimer

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End of Safety Data Sheet

