Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012



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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

Product identifier used on the label PC-10

Other means of identification Not applicable

Recommended use of the chemical and restrictions

on use

Recommended use Photostress® measurements.
Restrictions on use Anything other than the above.

Details of the supplier of the safety data sheet

Supplier VISHAY MEASUREMENTS GROUP, INC.

Address of Supplier Post Office Box 27777
Raleigh, NC 27611

USA

 Telephone
 +1 919-365-3800

 Fax
 +1 919-365-3945

 E-Mail (competent person)
 mm.us@vishaypg.com

Emergency telephone number 1-800-424-9300 CHEMTREC (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Not classified

Health hazards Acute toxicity, Category 4

Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2

Specific target organ toxicity — repeated exposure, Category 1 (Central nervous

system and Blood effect - Oral)

Specific target organ toxicity — repeated exposure, Category 2 (Respiratory

effects - Oral)

Germ cell mutagenicity, Category 2

Carcinogen, Category 2

Hazardous to the aquatic environment, Chronic , Category 2

Hazard Symbol

Environmental hazards







Signal Word(s) DANGER

Hazard Statement(s) Harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to organs.

Suspected of causing genetic defects.

Suspected of causing cancer.

Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Obtain special instructions before use.

14089 Page: 1 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



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Do not breathe vapour.

Wash hands and exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Do not handle until all safety precautions have been read and understood.

Rinse mouth.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/physician.

Store locked up.

Dispose of contents in accordance with local, state or national legislation.

Other hazards None known

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

0%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures Substances in preparations / mixtures

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	<100	25068-38-6	500-033-5	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
Resorcinol diglycidyl ether	34 – 40	101-90-6	202-987-5	Acute toxicity, Category 4 – Oral Acute toxicity, Category 4 – Dermal Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Germ cell mutagenicity, Category 2 Carcinogen, Category 2 Hazardous to the aquatic environment, Chronic, Category 3
Aluminium powder (stabilised)	15 - 20	7429-90-5	231-072-3	Flammable solid, Category 1 Water-reactive, Category 2
P-Tert-butylphenyl 1-(2,3-epoxy)propyl ether	0.4 – 3.8	3101-60-8	221-453-2	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Hazardous to the aquatic environment, Chronic, Category 2
Linseed oil, epoxidised	1 - 2	8016-11-3	232-401-3	Not classified
Resorcinol	1 - 2	108-46-3	203-585-2	Acute toxicity, Category 4 – Oral Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye damage, category 1 Specific target organ toxicity — repeated exposure, Category 1 (Central nervous system and Blood effect – Oral) Specific target organ toxicity — repeated exposure, Category 2 (Respiratory effects – Oral) Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 3
Stearic acid	< 1	57-11-4	200-313-4	Not classified
Silicon	< 0.5	7440-21-3	231-130-8	Not classified
Iron	< 0.5	7439-89-6	231-096-4	Not classified

14089 Page: 2 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012



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ACCORDING TO OSHA HCS (29 CFR 1910.1200) SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Do not breathe vapour. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration if breathing has ceased or shows signs of failing. IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to organs. Suspected of causing genetic defects. Suspected of causing cancer.

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Unsuitable extinguishing Media

Special hazards arising from the substance or mixture

Special protective equipment and precautions for fire fighters

As appropriate for surrounding fire. Extinguish with dry sand or special powder for metal fire.

Do not use water jet. Direct water jet may spread the fire.

May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon dioxide, Phenolics, Aluminium oxides and Aldehydes. Sealed containers may rupture explosively if hot. Dense smoke is emitted when burned without sufficient oxygen.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and material for containment and cleaning up

Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Use personal protective equipment as required. See Section: 8. Do not breathe vapour.

Ensure suitable personal protection during removal of spillages. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. This material and its container must be disposed of as hazardous waste.

14089 Page: 3 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012

incompatibilities

Storage life

Storage temperature

Incompatible materials



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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using

this product. Wash hands before breaks and after work.

Conditions for safe storage, including any Store in a well-ventilated place. Keep container tightly closed. Keep away from

heat, sources of ignition and direct sunlight. Protect from moisture.

Ambient.

Stable under normal conditions.

Keep away from: Acids, strong bases, Oxidizing agents, mercaptans and

unintended contact with amines. The following may occur: Hazardous

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Aluminium	7429-90-5					NIOSH
		-	10	-	-	Total Dust
		-	5	-	-	Respirable Fraction
		-	3	-	-	Soluble Salts, alkyls
						OSHA
		-	15	-	-	Total Dust
		-	5	-	-	Respirable Dust
						ACGIH, A4
		-	1	-	-	Respirable Fraction
Resorcinol	108-46-3	10	45	20(1)	90(1)	NIOSH
		10	-	20	-	ACGIH, A4
Silicon	7440-21-3					NIOSH
		-	10	-	-	Total Dust
		-	5	-	-	Respirable Dust
						OSHA
		-	15	-	-	Total Dust
			5	-	-	Respirable Dust

Note: OSHA PELs 1910.1000 TABLE Z-1/ NIOSH RELs / ACGIH TLVs

(1) 15 minutes average value

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

The other components listed in Section 3 do not have occupational exposure limits.

Biological Exposure Indices Not established

Appropriate engineering controls Ensure adequate ventilation or use appropriate containment. Atmospheric levels

should be controlled in compliance with the occupational exposure limit. Have

available eyewash bottle with clean water.

Individual protection measures, such as personal

protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing

14089 Page: 4 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

should be thoroughly cleaned. Contaminated leather articles should be discarded (e.g. shoes). Do not eat, drink or smoke at the work place.

Eye/face protection Wear protective eye glasses for protection against liquid splashes. Wear eye

protection with side protection.

Skin protection

Hand protection: Wear impervious gloves. Gloves should be changed regularly to avoid permeation problems. The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled. Recommended: Neoprene.

> Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

In case of inadequate ventilation wear respiratory protection. Open system(s):

Wear suitable respiratory protective equipment.





Viscosity

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Aluminium Coloured liquid

Faint Odour Odor Odor Threshold Not available. Not established. Melting Point/Freezing Point Not available.

Initial boiling point and boiling range 204°C 110°C [Closed cup] Flash Point

Evaporation rate (Butyl acetate = 1) Not available.

Flammability (solid, gas) Not applicable - Liquid. Upper/lower flammability or explosive limits Not applicable. Vapour pressure < 1 mm Hg

Vapour density > 1 (Air = 1)Relative density 1.51 (H2O = 1)Solubility(ies) Insoluble in water. Partition coefficient: n-octanol/water Not available. Auto-ignition temperature Not applicable. **Decomposition Temperature** Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions. Chemical stability Stable under normal conditions.

Keep away from: Acids, strong bases, Amines and mercaptans. The following Possibility of hazardous reactions

Not available

may occur: Hazardous Polymerization. Contact with aliphatic amines will cause

irreversible polymerization with considerable heat build-up. Conditions to avoid Keep away from heat, sources of ignition and direct sunlight.

Incompatible materials Keep away from: Acids, strong bases, Amines and mercaptans.

Hazardous decomposition product(s) May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon

dioxide, Phenolics, Aluminium oxides and Aldehydes.

14089 Page: 5 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012



www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Acute toxicity - Skin Contact

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion Acute toxicity, Category 4: Harmful if swallowed.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 1244 mg/kg

bw/day.

Acute toxicity - Inhalation Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l. Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Skin corrosion/irritationSkin corrosion/irritation, Category 2: Causes skin irritation.Serious eye damage/irritationEye Irritation, Category 2: Causes serious eye irritation.

Respiratory or skin sensitizationSkin Sensitisation, Category 1: May cause an allergic skin reaction. **Germ cell mutagenicity**Germ cell mutagenicity, Category 2: Suspected of causing genetic defects.

Carcinogenicity Carcinogen, Category 2: Suspected of causing cancer.

Reproductive toxicityBased upon the available data, the classification criteria are not met.

STOT - single exposure Specific target organ toxicity — single exposure, Category 1; Causes damage to

organs. Central nervous system and Blood effect - Oral

Specific target organ toxicity — single exposure, Category 2; May cause

damage to organs. Respiratory effects - Oral

STOT - repeated exposureBased upon the available data, the classification criteria are not met. **Aspiration hazard**Based upon the available data, the classification criteria are not met.

Information on likely routes of exposure

Inhalation Possible – accidental exposure Ingestion Unlikely – accidental exposure Skin Contact Unlikely – accidental exposure Eye Contact Unlikely – accidental exposure

Early onset symptoms related to exposure Causes skin irritation. May cause an allergic skin reaction. Causes serious eye

irritation.

Delayed health effects from exposure Harmful if swallowed. Causes damage to organs. (Central nervous system and

Blood effect, Respiratory effects). Suspected of causing genetic defects.

Suspected of causing cancer.

Other information

NTP Report on Carcinogens Resorcinol diglycidyl ether: Reasonably anticipated to be a human carcinogen

IARC Monographs Resorcinol diglycidyl ether: Group 2B

Resorcinol: Group 3

OSHA Designated Carcinogen All chemicals are not listed

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Estimated Mixture LC50 > 1 \leq 10 mg/l (Fish) Part of the components are poorly biodegradable.

Persistence and degradability Part of the components are poorly biodegradable.

Bioaccumulative potential The product has low potential for bioaccumulation.

Mobility in soil The product is predicted to have low mobility in soil. (Insoluble in water.)

Other adverse effects Not classified as PBT or vPvB.

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Dispose of this material and its container as hazardous waste. Containers of this

material may be hazardous when empty since they retain product residue.

14089 Page: 6 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Additional Information

Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

ADR/RID **IMDG** IATA UN 3082 UN 3082 UN 3082 UN number

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Reaction

product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular

Resorcinol diglycidyl ether: Reasonably anticipated to be a human carcinogen

Resorcinol diglycidyl ether: Hazardous Substance List. Special Hazardous

Aluminium: Hazardous Substance List. Environmental Hazard List Resorcinol: Hazardous Substance List, Environmental Hazard List

Resorcinol diglycidyl ether: Safe harbor level - NSRL: 0.4 ug/day

Resorcinol diglycidyl ether: Candidate Chemicals List Aluminium: Initial Candidate Chemicals List

weight ≤ 700) and Tert-butylphenyl 1-(2,3-epoxy)propyl ether)

Transport hazard class(es) 9 Ш Ш Ш Packing group

Environmental hazards Classified as a Marine Environmentally Environmentally Pollutant

hazardous substance

Not applicable.

Resorcinol diglycidyl ether: De Minimis limit: 0.1%

Aluminium: De Minimis limit: 0.1%

Silicon: Hazardous Substance List

Aluminium: Hazardous Substance List Resorcinol: Hazardous Substance List Silicon: Hazardous Substance List

Resorcinol diglycidyl ether: Group 2B

hazardous substance

Transport in bulk according to Annex II of MARPOL

73/78 and the IBC Code

Special precautions for user

See Section: 2

Not listed

Not listed

Not listed

Not listed

Resorcinol: COC list

Resorcinol: RTKHSL Silicon: RTKHSL. SHHSL

Substance List

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA (Toxic Substance Control Act) Not listed EPCRA/SARA Section 302 Extremely Hazardous Not listed

Substances

EPCRA Section 313 Toxics Release Inventory (TRI)

NIOSH Occupational Carcinogen List OSHA List of highly hazardous chemicals, toxics and

reactives

NTP Report on Carcinogens (RoC) List

Poison Prevention Packaging Act

US State Regulations California State, Proposition 65 List

California State, Safer Consumer Products Regulations

Maine State, Toxic Chemicals in Children's Products Act

New Jersey State Worker and Community RTK Act

Pennsylvania State, Worker and Community RTK Act

Rhode Island State, Hazardous Substances RTK Act

Non-Regional

IARC Monographs, List of Classificationsonal

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

Resorcinol: Group 3

Version 3.0

Revision Date 24 April 2017 **Date of First Issue** 01 November 2012

14089 Page: 7 of 8

Version: 3.0

Date of Issue: 24 April 2017

Date of First Issue: 01 November 2012



www.vishaypq.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

References: Existing Safety Data Sheet (SDS), EU Harmonised Classification(s) for Resorcinol diglycidyl ether (CAS No. 101-90-6), Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) CAS No. 25068-38-6), Aluminium powder (stabilised) (CAS No. 7429-90-5) and Resorcinol (CAS No.108-46-3). Existing EU ECHA registration(s) for Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS No. 25068-38-6), Tert-butylphenyl 1-(2,3-epoxy)propyl ether (CAS No. 3101-60-8), Aluminium (CAS No. 7429-90-5), Linseed oil, Epoxidized (CAS No. 8016-11-3), Resorcinol (CAS No. 108-46-3), Stearic acid (CAS No. 57-11-4), Silicon (CAS No. 7440-21-3) and Iron (CAS# 7439-89-6).

GHS Classification of the substance or mixture	Classification Procedure
Acute toxicity, Category 4	Acute Toxicity Estimate Mixture Calculation
Skin corrosion/irritation, Category 2	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Specific target organ toxicity — repeated exposure,	Threshold Calculation
Category 1 (Central nervous system and Blood effect – Oral)	
Specific target organ toxicity — repeated exposure,	Threshold Calculation
Category 2 (Respiratory effects – Oral)	
Germ cell mutagenicity, Category 2	Threshold Calculation
Carcinogen, Category 2	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists

BEI: Biological Exposure Indices (ACGIH)

IARC: International Agency for Research on Cancer

rr: Irritation

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: The Occupational Safety & Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible exposure limit

REL: Recommended exposure limit SCL: Specific Concentration Limit

SCL: Specific Concentration Limit

Skin": Risk of overexposure via dermal contact

STEL: Short Term Exposure Limit

TLV: Threshold Limit value
TSCA: Toxic Substance Control Act

TWA: Time Weighted Average

URT: Upper respiratory tract

vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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14089 Page: 8 of 8



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