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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 2015/830

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1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name PC-6C - PL-2
Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.

1.2 Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) Photostress® measurements.

Uses Advised Against None known.

1.3 Details of the supplier of the safety data sheet

Company Identification VISHAY MEASUREMENTS GROUP UK LTD

Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom

 Telephone
 +44 (0) 1256 462131

 Fax
 +44 (0) 1256 471441

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

1.4 Emergency telephone number (00-1) 703-527-3887

CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2; H315

Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411

2.2 Label elements Regulation (EC) No. 1272/2008 (CLP)

Product Name PC-6C

Hazard Pictogram(s)





Signal Word(s) Warning

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

molecular weight \leq 700) and P-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Hazard Statement(s) 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.

Precautionary Statement(s) P280: Wear protective gloves/protective clothing/eye protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

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.

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Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.

P273: Avoid release to the environment.

Additional Information None.

2.3 Other hazards None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	< 100	25068-38-6	500-033-5	None assigned.	Skin Irrit. 2; H315 (SCL: ≥ 5%) Eye Irrit. 2; H319 (SCL: ≥ 5%) Skin Sens. 1; H317 Aquatic Chronic 2; H411
P-tert-butylphenyl 1-(2,3-epoxy)propyl ether	1 - 10	3101-60-8	221-453-2	None assigned.	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411

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. SCL: Specific Concentration Limit.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Skin Contact 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.

Eye Contact

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.

Ingestion Rinse mouth. Do not induce vomiting. Do not give anything by mouth to an

unconscious person. If symptoms develop, obtain medical attention.

d Causes skin irritation. May cause an allergic skin reaction. Causes serious eye

irritation.

Indication of any immediate medical attention and Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any

special treatment needed

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon dioxide and phenolic compounds. Heating of containers may cause pressure

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5.3 Advice for fire-fighters

rise, with risk of bursting.

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.

Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

equipment as required. See Section: 8. Avoid breathing vapours.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and cleaning up 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. Dispose of this material and its container as hazardous waste

(2008/98/EEC). See Section: 8, 13

6.4 Reference to other sections

6.3

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any

incompatibilities

Storage temperature

Storage life

Incompatible materials

Ambient. 2 - 43 °C

Use within 24 months.

Keep away from: Acids, strong bases, Amines and mercaptans. The following

may occur: Hazardous Polymerization.

7.3 Specific end use(s)

Photostress® measurements.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
- 8.1.1 Occupational Exposure Limits
- 8.1.2 Biological limit value
- 8.1.3 PNECs and DNELs
- 8.2 Exposure controls
- 8.2.1 Appropriate engineering controls
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Not established.

Not established.

Not established.

Ensure adequate ventilation or use appropriate containment.

Keep away from heat, sources of ignition and direct sunlight.

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 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 (EN166).



Skin protection



Hand protection: Wear impervious gloves (EN374). 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):

Respiratory protection

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Wear suitable respiratory protective equipment.

Thermal hazards Not applicable.

8.2.3 Environmental Exposure Controls Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Clear liquid Odour Faint Odour Odour threshold Not available. рΗ Not established. Not available. Melting point/freezing point Not available. Initial boiling point and boiling range Flash point Not available. Not available. Evaporation rate

Flammability (solid, gas) Not applicable - Liquid.

Upper/lower flammability or explosive limits Not applicable. Vapour pressure Not available. Vapour density Not available. Relative density 1.16 (H2O = 1)Solubility(ies) Insoluble in water. Partition coefficient: n-octanol/water Not available. Not applicable. Auto-ignition temperature **Decomposition Temperature** Not available. Viscosity Not available. Explosive properties Not explosive. Oxidising properties Not oxidising.

9.2 Other information Volatile Organic Compound Content (%): 0

10. SECTION 10: STABILITY AND REACTIVITY

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

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

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

irreversible polymerization with considerable heat build-up.

10.4 Conditions to avoid Keep away from heat, sources of ignition and direct sunlight.
 10.5 Incompatible materials Keep away from: Acids, strong bases, Amines and mercaptans.

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

dioxide and phenolic compounds.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

Skin Contact

Ingestion Based upon the available data, the classification criteria are not met.

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

bw/day.

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 Irrit. 2: Causes skin irritation.Serious eye damage/irritationEye Irrit. 2: Causes serious eye irritation.

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Respiratory or skin sensitization Skin Sens. 1: May cause an allergic skin reaction. Germ cell mutagenicity Based upon the available data, the classification criteria are not met. Carcinogenicity Based upon the available data, the classification criteria are not met. Reproductive toxicity Based upon the available data, the classification criteria are not met. STOT - single exposure Based upon the available data, the classification criteria are not met. STOT - repeated exposure Based upon the available data, the classification criteria are not met. **Aspiration hazard** Based upon the available data, the classification criteria are not met.

11.2 Other information

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 **Toxicity** Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Estimated Mixture LC50 > 1 < 10 mg/l (Fish)

12.2 Persistence and degradability Part of the components are poorly biodegradable. **Bioaccumulative potential** 12.3 The product has low potential for bioaccumulation.

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

Results of PBT and vPvB assessment Not classified as PBT or vPvB. 12.5

12.6 Other adverse effects None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of this material and its container as hazardous waste (2008/98/EEC).

Send after pre-treatment to a appropriate hazardous waste incinerator facility

according to legislation.

Additional Information 13.2 Dispose of contents in accordance with local, state or national legislation.

Containers of this material may be hazardous when empty since they retain

product residue.

14. **SECTION 14: TRANSPORT INFORMATION**

ADR/RID / IMDG / IATA

14.1 **UN** number UN 3082

14.2 **UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

> (CONTAINS Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) and P-tert-butylphenyl 1-(2,3-

epoxy)propyl ether)

14.3 Transport hazard class(es) 14.4 Packing group

14.5 **Environmental hazards** Classified as a Marine Pollutant/ Environmentally hazardous substance

14.6 Special precautions for user See Section: 2 14.7 Transport in bulk according to Annex II of MARPOL Not applicable.

73/78 and the IBC Code

None.

SECTION 15: REGULATORY INFORMATION 15.

15.1 Safety, health and environmental

Additional Information

regulations/legislation specific for the substance or

mixture

14.8

15.1.1 EU regulations

> Substance(s) of Very High Concern (SVHCs) None

15.1.2 National regulations

> Wassergefährdungsklasse (Germany) Water hazard class: 2

15.2 **Chemical Safety Assessment** Not available.

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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS# 25068-38-6) and Existing ECHA registration(s) for Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS# 25068-38-6) and P-tert-butylphenyl 1-(2,3-epoxy)propyl ether)(CAS# 3101-60-8).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Irrit. 2; H19	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

LEGEND

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

PBT PBT: Persistent, Bioaccumulative and Toxic 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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Annex to the extended Safety Data Sheet (eSDS)

No information available.