## Revision: 1.1 Date: 20.05.2015

# ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010



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## PL-8

1.	SECTION 1: IDENTIFICATION OF THE SUBS	STANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	
	Product Name	PL-8
	Chemical Name	Mixture
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	None assigned.
1.2	Recommended use of the chemical and restrictions on use	
	Identified Use(s)	Photostress® measurements.
	Uses Advised Against	For professional users only.
1.3	Supplier's details	
	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 Phone No.	(00-1) 703-527-3887 CHEMTREC
2.1	Classification of the substance or mixture	
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. 2; Causes skin irritation.
		Skin Sens. 1; May cause sensitization by skin contact.
		Eye Irrit. 2; Causes serious eye irritation.
		Repr. 1B; May damage the unborn child. Suspected of damaging fertility.
2.1.2	Directive 67/548/EEC & Directive 1999/45/EC	Xi; R36/38: Irritating to eyes and skin.
		R43: May cause sensitization by skin contact.
		Repr. Cat. 1; R61: May cause harm to the unborn child. Repr. Cat. 3; R62: Possible risk of impaired fertility.
2.2	Label elements Product Name	According to Regulation (EC) No. 1272/2008 (CLP) PL-8
	Hazard Pictogram(s)	$\wedge$
	Signal Word(s)	Danger
	Hazard Statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H360Df: May damage the unborn child. Suspected of damaging fertility.
	Precautionary Statement(s)	P201: Obtain special instructions before use.

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P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

### 2.3 Other hazards

EUH205: Contains epoxy constituents. May produce an allergic reaction.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

#### 3.2 Mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Bisphenol A Diglycidyl Ether	84	25036-25-3	-	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319
Dibutylphthalate*	16	84-74-2	201-557-4	Repr. 1B; H360Df Aquatic Acute 1; H400

## Directive 67/548/EEC & Directive 1999/45/EC

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
Bisphenol A Diglycidyl Ether	84	25036-25-3	-	Xi; R36/38: Irritating to eyes and skin. R43: May cause sensitization by skin contact.
Dibutylphthalate*	16	84-74-2	201-557-4	R61: May cause harm to the unborn child. R62: Possible risk of impaired fertility. N; R50: Very toxic to aquatic organisms.

\* is included on the Candidate List of Substances of Very High Concern for authorisation (REACH Annex XIV).

## 4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Skin Contact IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. 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. If eye irritation persists: Get medical advice/attention. Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Make victim drink water. Never give anything by mouth to an unconscious person.Get medical advice/attention if you feel unwell. 4.2 Most important symptoms and effects, both acute and Contains epoxy constituents. May produce an allergic reaction. Causes irritation

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#### delayed

4.3 Indication of any immediate medical attention and special treatment needed

to eyes and skin. May damage the unborn child. Suspected of damaging fertility. None known. Treat symptomatically.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable Extinguishing Media Unsuitable extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or waterspray. Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture
 5.3 Advice for fire-fighters
 May decompose in a fire giving off toxic fumes.
 Fire fighters should wear complete protective cl

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.

#### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection.
6.2	Environmental precautions	Do not allow to enter drains, sewers or watercourses.
6.3	Methods and material for containment and cleaning	Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to
	up	a container for disposal. Dispose of this material and its container as hazardous waste.
6.4	Reference to other sections	See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. 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	Ensure adequate ventilation.
	Storage temperature	Ambient.
	Storage life	Stable under normal conditions.
	Incompatible materials	Strong Acids. Strong oxidising agents.
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

SUBSTANCE	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL	STEL	Note
		TWA ppm)	TWA mg/m³)	(ppm)	(mg/m³)	
Dibutylphthalate	84-74-2	-	5	-	10	WEL

Note: WEL: Workplace Exposure Limit (UK HSE EH40)

#### 8.1.2 Biological limit value

Not established.

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### 8.1.3 PNECs and DNELs

DNEL (Dibutylphthalate)	Oral	Inhalation	Dermal
Industry - Long Term - Systemic effects	-	4.17 mg/m <sup>3</sup>	7.22 mg/kg bw/day
Industry - Short term - Systemic effects	-	8.52 mg/m <sup>3</sup>	-
Consumer - Long Term - Systemic effects	0.22 mg/kg bw/day	0.62 mg/m <sup>3</sup>	2.2 mg/kg bw/day

PNEC	Dibutylphthalate	
Aquatic Compartment	PNEC aqua (freshwater) 10 μg/L	
	PNEC aqua (marine water) 10 μg/L	
	PNEC aqua (intermittent releases) 10 µg/L	
	PNEC STP 0.22 mg/L	
	PNEC sediment (freshwater/marine water) 3.1 mg/kg sediment dw	
Terrestrial Compartment	PNEC soil 2 mg/kg soil dw	
	PNEC oral 104 mg/kg food dw	

clean water.

### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. When no local exhaust ventilation is available, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard.

Use personal protective equipment as required. Wash contaminated clothing

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166). Have available eyewash bottle with

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer

to the information provided by the gloves' producer. The gloves type used must

concentration/quantity of material being handled. Recommended: Butyl rubber,

Do not use in areas without adequate ventilation. In case of inadequate

be chosen based on the work activity and duration as well as

before reuse. Avoid contact with skin and eyes.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection



Skin protection



Respiratory protection



Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

ventilation wear respiratory protection.

Nitrile rubber, Neoprene, PVC.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties					
	Appearance	Light Coloured liquid				
	Odour	Slight Aromatic Odour				
	Odour Threshold	Not available.				
	рН	Not established.				
	Melting Point/Freezing Point	Not available.				
	Initial boiling point and boiling range	200°C				
	Flash point	204°C (Closed Cup)				
	Evaporation Rate	Not available.				
	Flammability (solid, gas)	Non-flammable.				
	Upper/lower flammability or explosive limits	Not applicable.				

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Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition Temperature Viscosity Explosive properties Oxidising properties Not available. Not available. 1.13 (H2O = 1) (Mixture) Insoluble. Not available. Not available. Not available. Not available. Not available. Not available. Not oxidising.

#### 9.2 Other information

#### None.

### 10. SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous decomposition product(s)

Stable under normal conditions. Stable under normal conditions. Combustion or thermal decomposition will evolve toxic and irritant vapours. Avoid contact with heat and ignition sources and oxidizers. Strong Oxidizing agents and Nitrates. Strong Acids and Alkalis.. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, and Aldehydes.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects (Substances in preparations / mixtures) Acute toxicity Ingestion Not classified. Inhalation Not classified. May cause an allergic skin reaction. Causes skin irritation. Skin Contact Eve Contact Causes serious eye irritation. Eye Irrit. 2; Skin Irrit. 2 (Diglycidyl Ether of Bisphenol A) Irritation Corrosivity Not classified. Sensitisation Skin Sens. 1; (Diglycidyl Ether of Bisphenol A) Repeated dose toxicity Repr. 1B; May damage the unborn child. Suspected of damaging fertility. (Dibutylphthalate) Carcinogenicity Not classified. Mutagenicity Not classified. **Toxicity for reproduction** Not classified. 11.2 Other information None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

## 12.1 Toxicity

- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and VPVB assessment
- 12.6 Other adverse effects

## Not classified as a Marine Pollutant. Part of the components are biodegradable. The product has no potential for bioaccumulation. The product has low mobility in soil. Not classified as PBT or vPvB. None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste. (2008/98/EC). Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance



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	with local, state or national
Additional Information	None

## 14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID / IMDG / IATA
14.1	UN number	UN 3316
14.2	Proper Shipping Name	CHEMICAL KIT
14.3	Transport hazard class(es)	9
14.4	Packing group	
14.5	Environmental hazards	None.
14.6	Special precautions for user	See Section: 2
14.7	Transport in bulk according to Annex II of	Not applicable.
	MARPOL73/78 and the IBC Code	
14.8	Additional Information	If transported as part of two epoxy reaction kit, otherwise not classified for
		transport
15.	SECTION 15: REGULATORY INFORMAT	ΓΙΟΝ
15.1	Safety, health and environmental regulations/leg	gislation specific for the substance or mixture
15.1.1	EU regulations	
	Authorisations and/or Restrictions On Use	Dibutylphthalate is included on the Candidate List of Substances of Very High

15.1.2 National regulations

15.2 Chemical Safety Assessment

Dibutylphthalate is included on the Candidate List of Substances of Very High Concern for authorisation (REACH Annex XIV). None known. Not available.

legislation.

## 16. SECTION 16: OTHER INFORMATION

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

**References:** Existing Safety Data Sheet (SDS), the Classification and Labelling Inventory for Diglycidyl Ether of Bisphenol A (CAS# 25036-25-3) and Existing ECHA registration(s) for Dibutylphthalate (CAS# 84-74-2).

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; H319	Threshold Calculation
Repr. 1B; H360Df	Threshold 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	vPvT: very Persistent and very Toxic

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.

### Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.



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