

SAFETY DATA SHEET

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 SUBSTANCE/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, Inc. Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	919-365-3800
Fax	919-365-3945
E-Mail (competent person)	mm.us@vishaypg.com
1.4 Emergency Phone No.	1-800-424-9300 (U.S.) 703-527-3887 (Outside U.S.) CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 GHS Classification	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.
2.2 Label elements	
Product Name	According to GHS Classification
Hazard Pictogram(s)	PL-8  
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. 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.

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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 **Substances** Substances in preparations / mixtures
3.2 **Mixtures**

GHS Classification

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

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 delayed

Contains epoxy constituents. May produce an allergic reaction. Causes irritation to eyes and skin. May damage the unborn child. Suspected of damaging fertility.

4.3 Indication of any immediate medical attention and special treatment needed

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

May decompose in a fire giving off toxic fumes.

5.3 Advice for fire-fighters

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

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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 TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dibutylphthalate	84-74-2	-	5	-	-	NIOSH
		-	5	-	-	OSHA

Note: NIOSH: National Institute for Occupational Safety and Health. OSHA: Occupational Safety and Health Standards.

8.1.2 Biological limit value Not established.

8.1.3 PNECs and DNELs

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

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.

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

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes.

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Eye/face protection



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

Skin protection



Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled. Recommended: Butyl rubber, Nitrile rubber, Neoprene, PVC.

Respiratory protection



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

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	Light Coloured liquid
Odour	Slight Aromatic Odour
Odour Threshold	Not available.
pH	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.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.13 (H ₂ O = 1) (Mixture)
Solubility(ies)	Insoluble.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not oxidising.

9.2 Other information

None.

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	Combustion or thermal decomposition will evolve toxic and irritant vapours.
10.4 Conditions to avoid	Avoid contact with heat and ignition sources and oxidizers.
10.5 Incompatible materials	Strong Oxidizing agents and Nitrates. Strong Acids and Alkalis..
10.6 Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, and Aldehydes.

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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	
	Acute toxicity	
	Ingestion	Not classified.
	Inhalation	Not classified.
	Skin Contact	May cause an allergic skin reaction. Causes skin irritation.
	Eye Contact	Causes serious eye irritation.
	Irritation	Eye Irrit. 2; Skin Irrit. 2 (Diglycidyl Ether of Bisphenol A)
	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	NTP: Not Listed IARC Monographs: Not Listed OSHA Regulated: Not Listed

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Not classified as a Marine Pollutant.
12.2	Persistence and degradability	Part of the components are biodegradable.
12.3	Bioaccumulative potential	The product has no potential for bioaccumulation.
12.4	Mobility in soil	The product has low mobility in soil.
12.5	Results of PBT and VPVB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	This material and its container must be disposed of as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation.
13.2	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	III
14.5	Environmental hazards	None.
14.6	Special precautions for user	See Section: 2
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8	Additional Information	If transported as part of two epoxy reaction kit, otherwise not classified for transport

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Not available.
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), 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
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Standards

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.