## Revision: 1.1 Date: 20.05.2015

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



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# PHL-6

1.	SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product identifier			
	Product Name	PHL-6		
	Chemical Name	Mixture		
	CAS No.	Mixture		
	EINECS No.	Mixture		
	REACH Registration No.	None assigned.		
1.2	Recommended use of the chemical and restrictions	None doolghed.		
1.2	on use			
		Photostress® measurements.		
	Identified Use(s)			
	Uses Advised Against	None.		
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.)		
	Emergency i none no.	CHEMTREC		
		UNEWI KEU		
2.	SECTION 2: HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; Harmful if swallowed.		
	<b>o</b> ( )	Skin Sens. 1; May cause an allergic skin reaction.		
		STOT RE 2; May cause damage to organs through prolonged or repeated		
		exposure.		
		Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.		
2.1.2	Directive 67/548/EEC & Directive 1999/45/EC	R33: Danger of cumulative effects.		
		R43: May cause sensitization by skin contact.		
		Xn; R48/22: Harmful: danger of serious damage to health by prolonged		
		exposure if swallowed.		
		N; R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in		
		the aquatic environment.		
2.2	Label elements			
2.2		According to Regulation (EC) No. 1272/2008 (CLP)		
	Product Name	PHL-6		
	Hazard Pictogram(s)			
	Signal Word(s)	Warning		
	Signal Word(a)	-		
	Hazard Statement(s)	H302: Harmful if swallowed.		
		H317: May cause an allergic skin reaction.		
		H373: May cause damage to organs through prolonged or repeated exposure.		
		H411: Toxic to aquatic life with long lasting effects.		
	Precautionary Statement(s)	P273: Avoid release to the environment.		
	· · · · · ·	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
		P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if		
		POUT+POTZ: IF SWALLOWED: Call a POISON CENTER OF doctor/physician if		

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you feel unwell. P330: Rinse mouth. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. None.

### 2.3 Other hazards

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)	
6-methyl-2,4- bis(methylthio)phenylene- 1,3-diamine	5-10	106264-79-3	403-240-8	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
Aryl Mercuric Carboxylate	0.2	27236-65-3	248-355-2	Acute Tox. 2; H300 Acute Tox. 1; H310 Acute Tox. 2; H330 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
Non-classified ingredients	80-95	-	-	Not classified	

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
6-methyl-2,4- bis(methylthio)phenylene- 1,3-diamine	5-10	106264-79-3	403-240-8	Xn;R22: Harmful if swallowed. R43: May cause sensitization by skin contact. N; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Aryl Mercuric Carboxylate	0.2	27236-65-3	248-355-2	<ul> <li>T+; R26/27/28: Very toxic by inhalation, in contac with skin and if swallowed.</li> <li>R33: Danger of cumulative effects.</li> <li>N; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>
Non-classified ingredients	80-95	-	-	Not classified

### 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. Get medical advice/attention if you feel unwell.

 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. Make victim drink

4.2

4.3

6.4

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Most important symptoms and effects, both acute and

Indication of any immediate medical attention and

water. Get medical attention.

May be harmful if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure: Treat symptomatically.

- 5. SECTION 5: FIRE-FIGHTING MEASURES
- 5.1 Extinguishing media Suitable Extinguishing Media

special treatment needed

- Unsuitable extinguishing Media
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for fire-fighters

None known. May decompose in a fire giving off toxic fumes. Reacts with strong oxidizing

Extinguish preferably with waterspray or dry chemical. Carbon dioxide

- substances. Fire fighters should wear complete protective clothing including self-contained
- breathing apparatus. Do not breathe fumes.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.2 Environmental precautions
- 6.3 Methods and material for containment and cleaning up

Wear protective gloves/protective clothing/eye protection/face protection.

Do not allow to enter drains, sewers or watercourses. (Marine Pollutant) Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages. Transfer to a container for disposal. Flush spill area with copious amounts of water. See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

Reference to other sections

7.1 Precautions for safe handling 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 Store in dry place. Keep container closed when not in use. incompatibilities Storage temperature Ambient. Storage life Stable under normal conditions. Incompatible materials None. 7.3 Specific end use(s) Photostress® measurements.

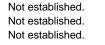
### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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)

Eye/face protection





Ensure adequate ventilation. Guarantee that the eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes.

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



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Thermal hazards

#### 8.2.3 **Environmental Exposure Controls**

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Rubber gloves recommended.

In case of inadequate ventilation wear respiratory protection.

Not applicable.

Avoid release to the environment.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** 9.

9.1	Information on basic physical and chemical properties	
	Appearance	Light Yellow/Amber Liquid.
	Odour	Slight Odour.
	Odour Threshold	Not available.
	рН	Not established.
	Melting Point/Freezing Point	Not established.
	Initial boiling point and boiling range	Not available.
	Flash point	149°C (SETA)
	Evaporation Rate	<1 (BuAc = 1)
	Flammability (solid, gas)	Non-flammable.
	Upper/lower flammability or explosive limits	Not applicable.
	Vapour pressure	< 0.13 kPa (1 mm Hg)
	Vapour density	Not available.
	Relative density	1.03 (H2O = 1)
	Solubility(ies)	Slightly soluble.
	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 10.2 10.3	Reactivity Chemical stability Possibility of hazardous reactions	Stable under normal conditions. Stable under normal conditions. None known.
10.4	Conditions to avoid	Keep away from heat and flame.
10.5	Incompatible materials	Strong oxidising agents. Isocyanates. Mineral acids.
10.6	Hazardous decomposition product(s)	Not determined.

#### 11. SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity
Ingestion
Inhalation
Skin Contact
Eye Contact
Irritation
Corrosivity

Acute Tox. 4; Harmful if swallowed. Not classified. Not classified. Not classified. Not classified. Not classified.

Sensitisation

Carcinogenicity

Other information

Mutagenicity

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Repeated dose toxicity

**Toxicity for reproduction** 

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

Skin Sens. 1; May cause an allergic skin reaction. STOT RE 2; May cause damage to organs through prolonged or repeated exposure. Not classified. Not classified. Not classified. None.

#### 12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

11.2

14.

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

#### 13. SECTION 13: DISPOSAL CONSIDERATIONS

SECTION 14: TRANSPORT INFORMATION

13.1 Waste treatment methods This material and its container must be disposed of as hazardous waste. (2001/118EC). Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.

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

		ADR/RID / IMDG / IATA
14.1	UN number	UN 3082
14.2	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(6-methyl-
		2,4-bis(methylthio)phenylene-1,3-diamine)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Marine Pollutant/Environmentally hazardous substance
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	None.

Classified as a Marine Pollutant.

No information available.

No information available.

No information available. Not classified as PBT or vPvB.

None known.

#### 15. SECTION 15: REGULATORY INFORMATION

15.1 15.1.1	Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations		
	Authorisations and/or Restrictions On Use	None.	
15.1.2	National regulations	None known.	
15.2	Chemical Safety Assessment	Not available.	

#### 16. **SECTION 16: OTHER INFORMATION**

References: Existing Safety Data Sheet (SDS), Harmonised Classification(s) for 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine (CAS# 106264-79-3) and the Classification and Labelling Inventory for Aryl Mercuric Carboxylate (CAS# 27236-65-3).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Acute Tox. 4; H302	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation

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STOT RE 2; H337	Threshold Calculation
Aquatic Chronic 2	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	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.

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### Annex to the extended Safety Data Sheet (eSDS)

No information available.

