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

on use

Identified Use(s) Photostress® measurements.

Uses Advised Against None.

1.3 Supplier's details

1.4

Company Identification VISHAY MEASUREMENTS GROUP UK LTD

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

 Emergency Phone No.
 (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)

Acute Tox. 4; Harmful if swallowed.

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

Product Name PHL-6

Hazard Pictogram(s)





Signal Word(s) Warning

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.

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P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if 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	T+; R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed. R33: Danger of cumulative effects. N; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Non-classified ingredients	80-95	-	=	Not classified

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Skin Contact

**Eye Contact** 

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. 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.

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

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medical advice/attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Make victim drink

water. Get medical attention.

May be harmful if swallowed and enters airways. May cause damage to organs

through prolonged or repeated exposure:

Treat symptomatically.

Ingestion

Most important symptoms and effects, both acute and 4.2

4.3 Indication of any immediate medical attention and

special treatment needed

#### **SECTION 5: FIRE-FIGHTING MEASURES** 5.

5.1		media

Suitable Extinguishing Media

Unsuitable extinguishing Media

5.2 Special hazards arising from the substance or mixture

Advice for fire-fighters 5.3

Extinguish preferably with waterspray or dry chemical. Carbon dioxide

None known.

May decompose in a fire giving off toxic fumes. Reacts with strong oxidizing

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

6.4 Reference to other sections 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**

Wear protective gloves/protective clothing/eye protection/face protection. Avoid 7.1 Precautions for safe handling

contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Wash hands before breaks and after work.

Store in dry place. Keep container closed when not in use.

7.2 Conditions for safe storage, including any

incompatibilities

Storage temperature

Storage life

Incompatible materials Specific end use(s)

Ambient.

Stable under normal conditions. None

Photostress® measurements.

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

#### 8.1 **Control parameters**

7.3

8.1.1 **Occupational Exposure Limits** 

8.1.2 Biological limit value **PNECs and DNELs** 8.1.3

8.2 **Exposure controls**  Not established. Not established. Not established.

Appropriate engineering controls 8.2.1

8.2.2 Individual protection measures, such as personal

protective equipment (PPE)

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.

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.

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

to the information provided by the gloves' producer.

Rubber gloves recommended.

Respiratory protection 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 Yellow/Amber Liquid.

Odour Slight Odour. Odour Threshold Not available. 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. Not available. Viscosity

Explosive properties Not available. Oxidising properties Not oxidising.

9.2 Other information None.

#### **SECTION 10: STABILITY AND REACTIVITY** 10.

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

10.3 Possibility of hazardous reactions 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.

#### **SECTION 11: TOXICOLOGICAL INFORMATION** 11.

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

Acute toxicity

Ingestion Acute Tox. 4; Harmful if swallowed.

Inhalation Not classified.

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Skin Contact Not classified. **Eve Contact** Not classified. Irritation Not classified. Corrosivity Not classified.

Sensitisation Skin Sens. 1; May cause an allergic skin reaction.

Repeated dose toxicity STOT RE 2; May cause damage to organs through prolonged or repeated

exposure.

Carcinogenicity Not classified. Mutagenicity Not classified. **Toxicity for reproduction** Not classified.

11.2 Other information None.

#### **SECTION 12: ECOLOGICAL INFORMATION** 12.

Classified as a Marine Pollutant. 12.1 **Toxicity** 12.2 Persistence and degradability No information available. **Bioaccumulative potential** 12.3 No information available. 12.4 Mobility in soil No information available. Not classified as PBT or vPvB. 12.5 Results of PBT and VPVB assessment

12.6 Other adverse effects None known.

#### SECTION 13: DISPOSAL CONSIDERATIONS 13.

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.

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

#### 14. **SECTION 14: TRANSPORT INFORMATION**

ADR/RID / IMDG / IATA

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) 14.4 Packing group

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

**Additional Information** None.

#### **SECTION 15: REGULATORY INFORMATION** 15.

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1

15.1.1 **EU** regulations

**UN** number

14.1

14.8

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**

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

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).

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



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