

# SAFETY DATA SHEET

Revision: 3.0 Date: 23.07.2015

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 EPY-500 Part B  
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) PC14 Metal surface treatment products, including galvanic and electroplating products.  
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 Sens. 1; H317  
Eye Dam. 1; H318  
Resp. Sens. 1; H334
- 2.2 Label elements**  
Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
EPY-500 Part B
- Hazard Pictogram(s)  

- Signal Word(s) Danger
- Contains: 1,2,4,5-Benzenetetracarboxylic Dianhydride
- Hazard Statement(s)  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Precautionary Statement(s)  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P285: In case of inadequate ventilation wear respiratory protection.  
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
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.  
P310: Immediately call a POISON CENTER/doctor.

#### Additional Information

None.

#### 2.3 Other hazards

May form explosible dust clouds in air.

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

#### 3.2 Mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Benzene-1,2:4,5-tetracarboxylic dianhydride	< 81	89-32-7	201-898-9	None assigned	Skin Sens. 1; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334
Magnesium silicate talc	< 18	14807-96-6	238-877-9	None assigned	Not classified
1,2,4,5-Benzenetetracarboxylic Acid	< 2	89-05-4	201-879-5	None assigned	Not classified

H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 4. SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Contaminated clothing should be thoroughly cleaned. If irritation develops and persists, get medical attention.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Obtain prompt consultation, preferably from an ophthalmologist.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Drink two glasses of water. Do not give milk or alcoholic beverages. Do not induce vomiting. Obtain medical attention if ill effects occur.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Chemical eye burns may require extended irrigation.

### 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.

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

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide. May form explosible dust clouds in air.

#### 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

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with water if exposed to fire. Avoid run off to waterways and sewers.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- |  |  |
|--|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Do not breathe dust. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. |
| <b>6.2 Environmental precautions</b>   | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.  |
| <b>6.3 Methods and material for containment and cleaning up</b>                | Sweep up spilled substance but avoid making dust. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.   |
| <b>6.4 Reference to other sections</b>   | See Section: 8, 13   |

## 7. SECTION 7: HANDLING AND STORAGE

- |  |   |
|--|---|
| <b>7.1 Precautions for safe handling</b>   | Ensure adequate ventilation. Do not breathe dust. Avoid contact with skin, eyes or clothing. 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. Protect from moisture.   |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b><br>Storage temperature<br>Storage life<br>Incompatible materials | Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight. Protect from moisture.<br>Ambient<br>Stable under normal conditions.<br>Keep away from: Flammable Liquids, Acids, Alkalis and Strong oxidising agents.<br>Contact with water or moist air causes production of opaque and corrosive fumes. |
| <b>7.3 Specific end use(s)</b>   | PC14 Metal surface treatment products, including galvanic and electroplating products. See Section: 1.2   |

## 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Magnesium silicate talc	14807-96-6	-	1 (2)	-	-	WEL

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

\* Respirable aerosol

- |  |   |
|--|---|
| <b>8.1.2 Biological limit value</b>  | Not established.  |
| <b>8.1.3 PNECs and DNELs</b>   | Not established.  |
| <b>8.2 Exposure controls</b>   |   |
| <b>8.2.1 Appropriate engineering controls</b>  | Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Have available eyewash bottle with clean water.   |
| <b>8.2.2 Individual protection measures, such as personal protective equipment (PPE)</b> | General hygiene measures for the handling of chemicals are applicable. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place. |

Eye/ face protection

Wear eye protection with side protection (EN166).

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Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection: Wear dust-resistant protective clothing. Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved. (Recommended: Respiratory protection necessary at/for: > 10 mg/m<sup>3</sup> Dust).

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	Powder
Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	>93.3°C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.81 (H <sub>2</sub> O = 1)
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
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	May form explosible dust clouds in air. Contact with water or moist air causes production of opaque and corrosive fumes.
10.4 Conditions to avoid	Keep away from heat and direct sunlight. Protect from moisture.
10.5 Incompatible materials	Keep away from: Flammable Liquids, Acids, Alkalis and Strong oxidising agents.
10.6 Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Oxides of carbon.

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## 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects (Substances in preparations / mixtures)</b>	
	<b>Acute toxicity</b>	
	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 > 5 mg/l.
	Skin Contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
	<b>Skin corrosion/irritation</b>	Based upon the available data, the classification criteria are not met.
	<b>Serious eye damage/irritation</b>	Eye Dam. 1: Causes serious eye damage.
	<b>Respiratory or skin sensitization</b>	Skin Sens. 1: May cause an allergic skin reaction. Resp. Sens. 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met.
	<b>Carcinogenicity</b>	Based upon the available data, the classification criteria are not met.
	<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
	<b>STOT - single exposure</b>	Based upon the available data, the classification criteria are not met.
	<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
	<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
<b>11.2</b>	<b>Other information</b>	None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b>	Based upon the available data, the classification criteria are not met. Estimated Mixture LC50 >100 mg/l (Fish)
<b>12.2</b>	<b>Persistence and degradability</b>	There is evidence of hydrolysis in water.
<b>12.3</b>	<b>Bioaccumulative potential</b>	No data.
<b>12.4</b>	<b>Mobility in soil</b>	The substance is predicted to have low mobility in soil.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6</b>	<b>Other adverse effects</b>	None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b>	<b>Waste treatment methods</b>	Containers of this material may be hazardous when empty since they retain product residue. 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.
<b>13.2</b>	<b>Additional Information</b>	Dispose of contents in accordance with local, state or national legislation.

## 14. SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

		<b>ADR/RID / IMDG / IATA</b>
<b>14.1</b>	<b>UN number</b>	Not applicable.
<b>14.2</b>	<b>UN proper shipping name</b>	Not applicable.
<b>14.3</b>	<b>Transport hazard class(es)</b>	Not classified as dangerous for transport.
<b>14.4</b>	<b>Packing group</b>	Not applicable.
<b>14.5</b>	<b>Environmental hazards</b>	Not classified as a Marine Pollutant./ Environmentally hazardous substance.
<b>14.6</b>	<b>Special precautions for user</b>	See Section: 2
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>14.8</b>	<b>Additional Information</b>	None.

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## 15. SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.1.1 EU regulations**  
Substance(s) of Very High Concern (SVHCs) None
- 15.1.2 National regulations**  
Wassergefährdungsklasse (Germany) Water hazard class: Non-hazardous ingredients
- 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 1,2,4,5-Benzenetetracarboxylic Dianhydride (CAS# 89-32-7), Existing ECHA registration(s) for 1,2,4,5-Benzenetetracarboxylic Acid (CAS# 89-05-4) and the Classification and Labelling Inventory for and Magnesium silicate talc (CAS# 14807-96-6).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	Threshold Calculation
Resp. Sens. 1; H334	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	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.