

SAFETY DATA SHEET

EPY-500 PART B

www.vpgsensors.com



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2020/878

Date of issue: 30/11/2022
Date of First Issue: 04/09/2012
Version 5.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier		
Product Name	EPY-500 Part B	
Product Code	Not applicable	
Unique Formula Identifier (UFI)	Not applicable	
Nanoform	The product does not contain nanoparticles.	
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	For professional users only.	
1.3 Details of the supplier of the safety data sheet		
Company Identification	VISHAY MEASUREMENTS GROUP GMBH Tatschenweg 1 74078 Heilbronn Deutschland	
Telephone	+49 (0) 7131 39099-0	
Fax	+49 (0) 7131 39099-229	
E-Mail (competent person)	mm.de@vpgsensors	
1.4 Emergency telephone number		
National Poisons Information Centre (United Kingdom)	+44 (0) 3448 920111	24 hr. emergency phone number Healthcare Professionals ONLY
NHS 24	111	Members of Public
Emergency Phone No.	(00-1) 703-527-3887	CHEMTREC (24 hours)
Languages spoken	All official European languages.	

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	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.	

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Precautionary Statement(s)

P260: Do not breathe dusts or mists.
P261: Avoid breathing mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Supplemental information

None Known

2.3 Other hazards

May form explosible dust clouds in air. Contact with water or moist air causes production of opaque and corrosive fumes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

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 classification
Benzene-1,2:4,5-tetracarboxylic dianhydride	80 -< 90	89-32-7	201-898-9	None assigned	Skin Sens. 1; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334

Note: For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe dusts or mists. Avoid all contact. Avoid exposure during pregnancy.

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. If breathing is laboured, oxygen should be administered by qualified personnel. If breathing has stopped, apply artificial respiration.

Skin Contact

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. 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. Immediately call a POISON CENTER/doctor. Obtain prompt consultation, preferably from an ophthalmologist. Continue irrigation until medical attention can be obtained.

Ingestion

Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. If exposed or concerned: Get medical attention/advice.

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|---|--|
| 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.
IF IN EYES: Chemical eye burns may require extended irrigation. |

SECTION 5: FIREFIGHTING MEASURES

- | | |
|--|--|
| 5.1 Extinguishing media
Suitable Extinguishing media

Unsuitable extinguishing media | As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.

Do not use water jet. Direct water jet may spread the fire. Avoid dust generation
Finely dispersed particles form explosive mixtures with air. |
| 5.2 Special hazards arising from the substance or mixture | Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon dioxide and Carbon monoxide. Contact with water or moist air causes production of opaque and corrosive fumes. 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. Avoid dust generation Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

- | | |
|--|---|
| 6.1 Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation In case of leakage, eliminate all ignition sources. Avoid breathing dust. Avoid contact with skin, eyes or clothing. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. See Section: 8. |
| 6.2 Environmental precautions | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. |
| 6.3 Methods and material for containment and cleaning up | Stop leak if safe to do so. Ensure suitable personal protection during removal of spillages. Vacuum spilled material. Recommended: High efficiency particulate air filter (HEPA filter). Use non-sparking tools. Avoid dust generation Do not use compressed air for cleaning purposes. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste |
| 6.4 Reference to other sections | See Section: 8, 13 |

SECTION 7: HANDLING AND STORAGE

- | | |
|--|---|
| 7.1 Precautions for safe handling | Ensure adequate ventilation Avoid contact with skin, eyes or clothing. Avoid breathing dust. Use personal protective equipment as required. See Section: 8. Avoid dust generation. Do not allow dust to accumulate on surfaces and equipment. Use non-dispersive workplace cleaning (no compressed air / high pressure cleaners). Do not use in confined spaces. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Protect from moisture. |
| 7.2 Conditions for safe storage, including any incompatibilities
Storage temperature
Storage life
Incompatible materials | Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from heat and direct sunlight. Protect from moisture.
Ambient
Stable under normal conditions
Keep away from: Acids, strong bases, Flammable liquids, Reducing agents, Oxidizing agents, Corrosive Substances and Alkalis. Keep away from moisture.
Contact with water or moist air causes production of opaque and corrosive fumes. |
| 7.3 Specific end use(s) | See Section: 1.2. |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

United Kingdom

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Talc, respirable dust	14807-96-6	-	1	-	-	-

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

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m ³	ppm	mg/m ³	
Talc	14807-96-6	-	10	-	-	-
Total inhalable dust respirable dust		-	0.8	-	-	-

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

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

General hygiene measures for the handling of chemicals are applicable. Avoid all contact. Avoid breathing vapours. 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.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

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. Recommended: PVC / Nitrile rubber.

Body protection:

Wear dustproof working clothes. Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



Use only in well-ventilated areas. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

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Thermal hazards Not applicable

8.2.3 Environmental exposure controls Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Powder
Colour	Not available
Odour	Not established
Melting point and freezing point	Not established
Boiling point or initial boiling point and boiling range	Not established
Flammability	Not established
Lower and upper explosion limit or lower and upper flammability limit	Not applicable - solid
Flash point	Not applicable - solid
Auto-ignition temperature	Not applicable - solid
Decomposition temperature	Not established
pH	Not established
Kinematic viscosity	Not applicable - solid
Solubility	Not established
Partition coefficient: n-octanol/water (log value)	Not applicable
Vapour pressure	Not established
Density and/or relative density	Not applicable - solid
Relative vapour density	Not applicable - solid
Particle characteristics	Not established

9.2 Other information

Explosive properties	Not explosive. May form explosible dust clouds in air.
Oxidising properties	Not oxidising.

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, sources of ignition and direct sunlight.
10.5 Incompatible materials	Keep away from: Acids, strong bases, Flammable liquids, Reducing agents, Oxidizing agents, Corrosive Substances and Alkalis. Protect from moisture.
10.6 Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon dioxide and Carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg bw/day.
Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 5 mg/l. (dust/mist)
Skin Contact	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg bw/day.

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Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Mixture: Eye Dam. 1; H318: Causes serious eye damage. Eye Dam. 1; H318: Causes serious eye damage.
Benzene-1,2:4,5-tetracarboxylic dianhydride	Result: Causes severe eye damage. OECD 405 (rabbit) (Unnamed publication, 1975; 2008) Harmonised Classification; ECHA registration dossier
Respiratory or skin sensitization	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction. Resp. Sens. 1; H33; May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sens. 1; H317: May cause an allergic skin reaction.
Benzene-1,2:4,5-tetracarboxylic dianhydride	Mouse local lymph node assay (LLNA) (OECD 429 and EU Method B42) Result: Adverse effects observed (Sensitising) (Unnamed publication, 2009) Resp. Sens. 1; H33; May cause allergy or asthma symptoms or breathing difficulties if inhaled. Result: Adverse effects observed (Sensitising) (Unnamed publication, 1989) Harmonised Classification; ECHA registration dossier
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2 Other information	None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Mixture: Based upon the available data, the classification criteria are not met.
12.2 Persistence and degradability	No data for the mixture as a whole. Readily biodegradable. Read across: Pyromellitic acid PMA Benzene-1,2:4,5-tetracarboxylic dianhydride 100% degradation in water 28d (OECD 301B) ECHA registration dossier
12.3 Bioaccumulative potential	No data for the mixture as a whole. The substance has low potential for bioaccumulation. Benzene-1,2:4,5-tetracarboxylic dianhydride Bioconcentration factor (BCF): 1 (pH 1-10 @25°C) ECHA registration dossier
12.4 Mobility in soil	No data for the mixture as a whole. Benzene-1,2:4,5-tetracarboxylic dianhydride Koc:1 Log Koc:0.155 (OECD 121 and EU Method C.19) Highly Mobile ECHA registration dossier
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7 Other adverse effects	None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Directive 2008/98/EC (Waste Framework Directive): HP4, HP13
13.2 Additional Information	Dispose of contents in accordance with local, state or national legislation.

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SECTION 14: TRANSPORT INFORMATION

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

	ADR/RID	ADN	IMDG	IATA/ICAO
14.1 UN number or ID number	None assigned			
14.2 UN proper shipping name	None assigned	None assigned	None assigned	None assigned
14.3 Transport hazard class(es)	None assigned	None assigned	None assigned	None assigned
14.4 Packing group	None assigned	None assigned	None assigned	None assigned
14.5 Environmental hazards	Not applicable	Not applicable	Not classified as a Marine Pollutant.	Not applicable
14.6 Special precautions for user	See Section: 2			
14.7 Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable	
14.8 Additional information	None			

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Use restriction according to REACH annex XVII, no.: Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]	Not restricted Not applicable
Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]	This substance/mixture does not contain any volatile organic compounds in the sense of Directive 2010/75/EU.
Restrictions of occupation:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
To follow:	Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
15.1.2 National regulations	
Germany	
Water hazard class (WGK)	slightly hazardous to water (WGK 1) (SelbstEinstufung gemäß AwSV (Gemisch, Rechenregel).)
15.2 Chemical Safety Assessment	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS), Harmonised Classification(s) for 1,2,4,5-Benzenetetracarboxylic Dianhydride (CAS# 89-32-7), and the Classification and Labelling Inventory for Crystalline silica (CAS# 14808-60-7) and Magnesium silicate talc (CAS# 14807-96-6).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

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LEGEND

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NOAEC	No observed adverse effect concentration
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time Weighted Average
STEL	Short term exposure limit
vPvB	very Persistent and very Bioaccumulative
UN	United Nations

Hazard classification / Classification code:

Skin Sens. 1; Skin Sensitisation, Category 1
Eye Dam. 1; Eye Damage, Category 1
Resp. Sens. 1; Respiratory Sensitization, Category 1

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.

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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