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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

## **SECTION 1: IDENTIFICATION**

Product identifier used on the label EPY-500 Part A

Other means of identification

Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture

Recommended use of the chemical and restrictions

on use

Recommended use PC14 Metal surface treatment products, including galvanic and electroplating

products.

Restrictions on use None known.

Details of the supplier of the safety data sheet

Supplier VISHAY MEASUREMENTS GROUP, INC.

Address of Supplier Post Office Box 27777
Raleigh, NC 27611

USA

 Telephone
 +1 919-365-3800

 Fax
 +1 919-365-3945

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

Emergency telephone number 1-800-424-9300 CHEMTREC (24 hours)

## SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Not classified

Health hazards Skin corrosion/irritation, Category 2
Skin Sensitisation, Category 1

Skin Sensitisation, Category Eye Irritation, Category 2

Environmental hazards Hazardous to the aquatic environment, Chronic, Category 2

Hazard Symbol





Signal Word(s) Warning

Hazard Statement(s)

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

Precautionary Statement(s) Wash hands and exposed skin thoroughly after handling.

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

Avoid breathing vapours.

IF ON SKIN: Wash with plenty of water.

If skin irritation 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 medical advice/attention.

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Take off contaminated clothing and wash it before reuse.

Dispose of contents in accordance with local, state or national legislation.

Other hazards Susceptible to polymerisation initiated by prolonged heating or the presence of

catalyst. Bulk: May undergo autopolymerisation.

Percent of the mixture consists of ingredient(s) of

unknown acute toxicity:

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures Substances in preparations / mixtures

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Phenol, polymer with formaldehyde, glycidyl ether	< 87	28064-14-4	608-164-0	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
Magnesium silicate talc	5 - 10	14807-96-6	238-877-9	Not classified
Reaction product: Bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	< 5	25068-38-6	500-033-5	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2

### **SECTION 4: FIRST AID MEASURES**



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.

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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. If eye irritation persists: Get

medical advice/attention.

Do not give milk or alcoholic beverages. Do not give anything by mouth to an Ingestion

unconscious person. Obtain medical attention if ill effects occur.

Most important symptoms and effects, both acute Causes skin irritation. May cause an allergic skin reaction. Causes serious eye and delayed

irritation. Overexposure may aggravate existing eye, skin, and/or respiratory

Indication of any immediate medical attention and Treat symptomatically.

special treatment needed

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

### **Extinguishing media**

Suitable Extinguishing Media

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray. Alcohol resistant foams (ATC type) are preferred. General

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Unsuitable extinguishing Media

purpose synthetic foams (including AFFF) or protein foams may function, but will

be less effective.

Do not use water jet. Direct water jet may spread the fire.

May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide and phenolic. Dense smoke is emitted when burned without sufficient oxygen. Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst.

Special protective equipment and precautions for

Special hazards arising from the substance or

fire fighters

mixture

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.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Methods and material for containment and cleaning up

Ensure adequate ventilation. Stop leak if safe to do so. Avoid breathing vapours. Use personal protective equipment as required. See Section: 8.

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.

#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Ensure adequate ventilation. Avoid breathing vapours. 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. Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst. Bulk: May undergo autopolymerisation.

Conditions for safe storage, including any incompatibilities

Storage temperature

Storage life

Incompatible materials

Ambient.

Stable under normal conditions.

Keep away from: Polymerisation catalysts such as peroxy or azo compounds,

strong acids, alkalis, oxidising agents and metal salts.

Keep away from heat, sources of ignition and direct sunlight.

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

#### **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Talc						NIOSH
(containing no asbestos	14807-96-6	-	2	-	-	Respirable Dust
and less than 1% quartz)	14007-90-0	20 mppcf	-	-	-	OSHA
	-	2	-	-	ACGIH, A4	

Note: OSHA PELs 1910.1000 TABLE Z-3/ NIOSH RELs / ACGIH TLVs

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

Mppcf: Millions of particles per cubic foot of air

The other components listed in Section 3 do not have occupational exposure limits.

Biological Exposure Indices Not established

Appropriate engineering controls Ensure adequate ventilation or use appropriate containment. Atmospheric levels

should be controlled in compliance with the occupational exposure limit.

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

General hygiene measures for the handling of chemicals are applicable. Avoid breathing vapours. 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 protective eye glasses for protection against liquid splashes. Wear eye protection with side protection.

Skin protection



Hand protection: Wear impervious gloves. Gloves should be changed regularly to avoid permeation problems. 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.

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

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment.

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

### Information on basic physical and chemical properties

Appearance Liquid Not available. Odor Odor Threshold Not available. Not available. рΗ Melting Point/Freezing Point Not available Initial boiling point and boiling range Not available. Flash Point >94°C Evaporation rate (Butyl acetate = 1) Not applicable. Flammability (solid, gas) Not applicable - liquid Upper/lower flammability or explosive limits Not applicable. Vapour pressure Not available. Vapour density Not available. 1.27 @ 25°C Relative density Solubility(ies) Not established. Partition coefficient: n-octanol/water Not available.

Auto-ignition temperature

Decomposition Temperature

Viscosity

Not available.

Not available.

>22 mm²/s @ 40°C

# **SECTION 10: STABILITY AND REACTIVITY**

 Reactivity
 Stable under normal conditions.

 Chemical stability
 Stable under normal conditions.

Possibility of hazardous reactions Susceptible to polymerisation initiated by prolonged heating or the presence of

catalyst. Bulk: May undergo autopolymerisation.

Conditions to avoid Keep away from heat, sources of ignition and direct sunlight.

Incompatible materials Polymerisation catalysts such as peroxy or azo compounds, strong acids,

alkalis, oxidising agents and metal salts.

Hazardous decomposition product(s) May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon

dioxide and phenolic.

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**Acute toxicity - Skin Contact** 

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

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

Acute toxicity - Ingestion Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Acute toxicity - Inhalation Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l. Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Skin corrosion/irritationSkin corrosion/irritation, Category 2: Causes skin irritation.Serious eye damage/irritationEye Irritation, Category 2: Causes serious eye irritation.

Respiratory or skin sensitization
Germ cell mutagenicity
Based upon the available data, the classification criteria are not met.
Carcinogenicity
Based upon the available data, the classification criteria are not met.
Reproductive toxicity
Based upon the available data, the classification criteria are not met.
STOT - single exposure
Based upon the available data, the classification criteria are not met.
STOT - repeated exposure
Based upon the available data, the classification criteria are not met.
Aspiration hazard
Based upon the available data, the classification criteria are not met.

Information on likely routes of exposure

InhalationPossible – accidental exposureIngestionUnlikely – accidental exposureSkin ContactPossible – accidental exposureEye ContactUnlikely – accidental exposure

Early onset symptoms related to exposure Causes irritation to eyes and skin. May cause an allergic skin reaction.

Delayed health effects from exposure None known.

Other information

NTP Report on Carcinogens Not listed.

IARC Monographs Magnesium silicate talc: Group 3 - Not classifiable as to its carcinogenicity to

humans.

OSHA Designated Carcinogen Not listed.

## **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Estimated Mixture LC50 >1 < 10 mg/l (Fish)

Persistence and degradabilityPart of the components are poorly biodegradable.Bioaccumulative potentialThe product has low potential for bioaccumulation.Mobility in soilThe product is predicted to have low mobility in soil.

Other adverse effects None known

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods This material and its container must be disposed of as hazardous waste.

Containers of this material may be hazardous when empty since they retain product residue. Send after pre-treatment to a appropriate hazardous waste

incinerator facility according to legislation.

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

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(number average molecular

Classified as a Marine

hazardous substance.

Pollutant/ Environmentally

weight ≤ 700))

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## **SECTION 14: TRANSPORT INFORMATION**

 ADR/RID
 IMDG
 IATA

 UN number
 UN 3082
 UN 3082
 UN 3082

**ENVIRONMENTALLY UN proper shipping name ENVIRONMENTALLY ENVIRONMENTALLY** HAZARDOUS SUBSTANCE, HAZARDOUS SUBSTANCE, HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, LIQUID, N.O.S. (Phenol, LIQUID, N.O.S. (Phenol, polymer with formaldehyde, polymer with formaldehyde, polymer with formaldehyde, glycidyl ether and Reaction glycidyl ether and Reaction glycidyl ether and Reaction product: bisphenol-Aproduct: bisphenol-Aproduct: bisphenol-A-(epichlorhydrin) epoxy resin (epichlorhydrin) epoxy resin (epichlorhydrin) epoxy resin

(number average molecular (number average molecular weight ≤ 700)) weight ≤ 700))

Transport hazard class(es)99Packing groupIIIIII

Environmental hazards

Classified as a Marine
Pollutant/ Environmentally
hazardous substance.

Classified as a Marine
Pollutant/ Environmentally
hazardous substance.

hazardous substance. hazardous

Transport in bulk according to Annex Not applicable.

II of MARPOL 73/78 and the IBC Code

Special precautions for user See Section: 2

# SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal Regulations

TSCA (Toxic Substance Control Act)

Magnesium silicate talc - Subject to 25,000 lb reporting threshold

Not listed.

EPCRA/SARA Section 302 Extremely Hazardous Not listed.

Substances

EPCRA Section 313 Toxics Release Inventory (TRI) Not listed. Program

NIOSH Occupational Carcinogen List

OSHA List of highly hazardous chemicals, toxics and Not listed.

reactives

NTP Report on Carcinogens (RoC) List Not listed.
Poison Prevention Packaging Act Not listed.

US State Regulations
California State, Proposition 65 List Not listed.

California State, Safer Consumer Products Regulations Magnesium silicate talc - Candidate Chemicals List

Maine State, Toxic Chemicals in Children's Products Act

Not listed.

New Jersey State Worker and Community RTK Act

Magnesium silicate talc - RTKHSL. SHHSL

Pennsylvania State, Worker and Community RTK Act
Rhode Island State, Hazardous Substances RTK Act
Magnesium silicate talc - Hazardous Substance List
Magnesium silicate talc - Hazardous Substance List

Non-Regional

IARC Monographs, List of Classifications Magnesium silicate talc - Group 3: Not classifiable as to its carcinogenicity to

humans

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

The following sections contain revisions or new statements: New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

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#### References:

Existing Safety Data Sheet (SDS).

EU Data: Existing ECHA registration(s) for and Harmonised Classification(s) for Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS# 25068-38-6). EU Data: The Classification and Labelling Inventory for Phenol, polymer with formaldehyde, glycidyl ether (CAS# 28064-14-4) and Magnesium silicate talc (CAS# 14807-96-6).

GHS Classification of the substance or mixture	Classification Procedure
Skin corrosion/irritation, Category 2	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Hazardous to the aquatic environment, Chronic, Category 2	Summation Calculation

#### **LEGEND**

ACGIH: American Conference of Governmental Industrial Hygienists

BEI: Biological Exposure Indices (ACGIH)

IARC: International Agency for Research on Cancer

Irr: Irritation

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: The Occupational Safety & Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible exposure limit

REL: Recommended exposure limit

SCL: Specific Concentration Limit

Skin": Risk of overexposure via dermal contact

STEL: Short Term Exposure Limit

TLV: Threshold Limit value

TSCA: Toxic Substance Control Act TWA: Time Weighted Average URT: Upper respiratory tract

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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