Revision: 2.0 Date: 07.09.2015



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 Barrier E
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) Strain gauge installation.

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 United Kingdom RG24 8FW

 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) Not classified as dangerous for supply/use.

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

Product Name Barrier E

Hazard Pictogram(s)

None assigned.

Signal Word(s) None assigned.

Hazard Statement(s)

None assigned.

Precautionary Statement(s)

None assigned.

Additional Information Contains: % of the mixture consists of components of unknown hazards to the

aquatic environment: 40.

40 percent of the mixture consists of ingredient(s) of unknown toxicity.

2.3 Other hazards None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

Revision: 2.0 Date: 07.09.2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 2015/830

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Mixed rubber blend	25 - 35	-	-	None assigned	Not known.
Kaolin	15 - 25	1332-58-7	310-194-1	None assigned	Not classified
Limestone (calcium carbonate)	15 - 25	1317-65-3	215-279-6	None assigned	Not classified
Asphalt	5 - 10	64742-93-4	265-196-4	None assigned	Not classified
Distillates (Petroleum), C3-6, Piperylene-Rich, Polymers With Isobutylene	< 10	152698-66-3	-	None assigned	Not classified
Poly Vinyl Chloride	<u><</u> 5	9002-86-2	-	None assigned	Not classified
Polyester	< 5	-	-	None assigned	Not known.
Carbon Black	< 5	1333-86-4	215-609-9	None assigned	Not classified
Antimony Trioxide	< 1	1309-64-4	215-175-0	None assigned	Carc. 2; H351

For full text of H/P Statements see section 16.

4. **SECTION 4: FIRST AID MEASURES**



Description of first aid measures

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

comfortable for breathing.

Skin Contact Wash with plenty of water. If irritation (redness, rash, blistering) develops, get

medical attention.

Eye Contact 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 Rinse mouth. Drink two glasses of water. Do not induce vomiting. If symptoms

develop, obtain medical attention.

4.2 Most important symptoms and effects, both acute and 40 percent of the mixture consists of ingredient(s) of unknown toxicity.

delayed

4.3

Indication of any immediate medical attention and Treat symptomatically. If symptoms develop, obtain medical attention.

special treatment needed

5. **SECTION 5: FIREFIGHTING MEASURES**

5.1 **Extinguishing media**

> Suitable Extinguishing media As appropriate for surrounding fire. In case of fire use carbon dioxide or dry

agent.

Unsuitable extinguishing media Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon

dioxide, Hydrogen chloride, Hydrogen Sulphide, Oxides of antimony and Oxides

of sulfur.

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

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

6. **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Avoid emergency procedures

breathing dust. Avoid contact with skin, eyes or clothing. 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

DOCUMENT NO. 14135 Page: 2 of 6 **REVISION D**

Revision: 2.0 Date: 07.09.2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 2015/830

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watercourses.

6.3 Methods and material for containment and cleaning

ıp

Collect mechanically and dispose of according to Section 13. Avoid dust generation. Ventilate the area and wash spill site after material pick-up is

complete.

6.4 Reference to other sections

See Section: 8, 13

7. 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. 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

incompatibilities Storage temperature

Storage life Incompatible materials

7.3 Specific end use(s)

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and

ignition sources. Keep away from direct sunlight.

Ambient.

Stable under normal conditions. Keep away from: Oxidizing agents.

Strain gauge installation.

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Kaolin	1332-58-7	-	2 (1)			WEL
Limestone (calcium carbonate)	1317-65-3	-	10 (2) 4 (1)	-	-	WEL
Poly Vinyl Chloride:	9002-86-2	-	10 (2) 4 (1)	-	-	WEL
Carbon Black	1333-86-4	-	3.5	-	7	WEL
Antimony trioxide	1309-64-4	-	0.5	-	-	WEL

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

(1): Respirable aerosol(2): Inhalable aerosol

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 contact with skin, eyes or clothing. Avoid breathing dust. 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



Eye Protection: Not applicable.

Revision: 2.0 Date: 07.09.2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 2015/830

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Skin protection



Hand protection: Avoid prolonged skin contact. Wash hands thoroughly after

handling.

Respiratory protection



Respiratory protection is not necessary if room is well ventilated. If technical exhaust or ventilation measures are not possible or insufficient, respiratory

protection must be worn.

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 Black roll with paper release liner (Solid)

Odour No odour. Odour threshold Not available. Not applicable. Melting point/freezing point Not available. Initial boiling point and boiling range Not available. Flash point Not applicable. Evaporation rate Not applicable. Flammability (solid, gas) Non-flammable. Upper/lower flammability or explosive limits Not applicable. Not applicable. Vapour pressure Not applicable. Vapour density 1.25 (H2O = 1)Relative density Solubility(ies) Not available. Partition coefficient: n-octanol/water Not available. Auto-ignition temperature Not available. **Decomposition Temperature** Not available. Viscosity Not applicable.

Oxidising properties Not oxidising.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity
 10.2 Chemical stability
 10.3 Possibility of hazardous reactions
 10.4 Stable under normal conditions.
 10.5 Stable under normal conditions.
 10.6 Hazardous polymerisation will not provide the provided that the pro

10.3 Possibility of hazardous reactions
 10.4 Conditions to avoid
 10.5 Incompatible materials
 Hazardous polymerisation will not occur.
 Keep away from heat and direct sunlight.
 Keep away from: Oxidizing agents.

10.6 Hazardous decomposition product(s) May decompose in a fire giving off toxic fumes. Decomposition products: Carbon

Not explosive.

None known.

monoxide, Carbon dioxide, Hydrogen chloride, Hydrogen Sulphide, Oxides of

antimony and Oxides of sulfur.

11. SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Explosive properties

Other information

9.2

Ingestion

40 percent of the mixture consists of ingredient(s) of unknown toxicity. Based upon the available data, the classification criteria are not met.

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

Revision: 2.0 Date: 07.09.2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 2015/830

Skin Contact

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bw/day

Inhalation 40 percent of the mixture consists of ingredient(s) of unknown toxicity.

Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 (Dust) > 5.0 mg/l. 40 percent of the mixture consists of ingredient(s) of unknown toxicity. 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/irritation Based upon the available data, the classification criteria are not met. Serious eye damage/irritation Based upon the available data, the classification criteria are not met. Respiratory or skin sensitization Based upon the available data, the classification criteria are not met. 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.

11.2 Other information None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity % of the mixture consists of components of unknown hazards to the aquatic

environment: 40. Based upon the available data, the classification criteria are

not met.

Estimated Mixture LC50 >100 mg/l (Fish)

12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 Part of the components are poorly biodegradable.
 The product has low potential for bioaccumulation.

12.4 Mobility in soil The product is predicted to have low mobility in soil (Solid).

12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB.

12.6 Other adverse effects None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Avoid release to the environment. Dispose of wastes in an approved waste

disposal facility.

13.2 Additional Information 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'.

ADR/RID / IMDG / IATA

14.1 UN number None assigned.
14.2 UN proper shipping name None assigned.
14.3 Transport hazard class(es) None assigned.
14.4 Packing group None assigned.

14.5 Environmental hazards Not classified as a Marine Pollutant. / Environmentally hazardous substance

14.6 Special precautions for user See Section: 2
 14.7 Transport in bulk according to Annex II of MARPOL Not applicable.

73/78 and the IBC Code

Additional Information None.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

15.1.1 EU regulations

14.8

Substance(s) of Very High Concern (SVHCs)

None.

Revision: 2.0 Date: 07.09.2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 2015/830

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Authorisations and/or Restrictions On Use

15.1.2 National regulations

Wassergefährdungsklasse (Germany) Water hazard class: 1

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 Antimony trioxide (CAS# 1309-64-4). Existing ECHA registration(s) for Antimony trioxide (CAS# 1309-64-4), Asphalt (CAS# 64742-93-4) and Carbon black (CAS# 1309-64-4), and the Classification and Labelling Inventory for Kaolin (CAS# 1332-58-7), Limestone (calcium carbonate) (CAS# 1317-65-3) and Polyvinyl chloride (CAS# 9002-86-2).

None.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

LEGEND

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

PNEL: Derived No Effect Level

vPvB: very Persistent and very Bioaccumulative

Hazard Statement(s)

H351: Suspected of causing cancer.

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.