

SAFETY DATA SHEET

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**
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**

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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	≤ 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



4.1 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 delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. If symptoms develop, obtain medical attention.

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 emergency procedures

Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Avoid 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

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- 6.3 **Methods and material for containment and cleaning up** watercourses.
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** Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from direct sunlight.
Storage temperature Ambient.
Storage life Stable under normal conditions.
Incompatible materials Keep away from: Oxidizing agents.
- 7.3 **Specific end use(s)** 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/m ³)	STEL (ppm)	STEL (mg/m ³)	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.



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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.
pH	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.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.25 (H ₂ O = 1)
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None known.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Keep away from heat and direct sunlight.
10.5 Incompatible materials	Keep away from: Oxidizing agents.
10.6 Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Decomposition products: Carbon 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
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

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Inhalation	bw/day. 40 percent of the mixture consists of ingredient(s) of unknown toxicity. Based upon the available data, the classification criteria are not met.
Skin Contact	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	Part of the components are poorly biodegradable.
12.3 Bioaccumulative potential	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 73/78 and the IBC Code	Not applicable.
14.8 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	
Substance(s) of Very High Concern (SVHCs)	None.

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	Authorisations and/or Restrictions On Use	None.
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).

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
DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
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.

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