

Version: 06-JUN-2018 Revision date: 06-JUN-2018 ACCORDING TO GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) SEVENTH REVISED EDITION

## S1125 Adhesive- Part B and S1264 Adhesive – Part B

## **SECTION 1: IDENTIFICATION**

1.1	GHS Product Identifier Product Name Product code Product type	S1125 Adhesive- Part B and S1264 Adhesive – Part B Not applicable Mixture	
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	Adhesive. Epoxy Resin. None known.	
1.3	Details of the supplier of the safety data sheet Supplier Telephone	Tyco Electronics UK Ltd Faraday Road, Dorcan, Swindon, Wiltshire, SN3 5HH, United Kingdom +44 (0) 1793 52 81 71 (Head Office) Monday - Friday 08:00 - 17:00 (GMT)	
	Fax E-Mail (competent person)	+44 1793 57 2516 msdsmaterialsuk@te.com	
1.4	<b>Emergency telephone number</b> Emergency Phone No. Languages spoken	+44 1793 528171 GMT (Monday to Friday 08:00 - 17:00) English	
SECTI	ON 2: HAZARDS IDENTIFICATION		
2.1 2.1.1	Classification of the substance or mixture GHS Classification	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	
2.2	GHS Classification Product Name Contains:	S1125 Adhesive – Part B and S1264 Adhesive – Part B reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	
	Hazard Pictogram(s)		
	Signal Word(s) Hazard Statement(s)	Warning H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.	
	Precautionary Statement(s)	<ul> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of water.</li> <li>P333+P313: If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313: If eye irritation persists: Get medical advice/attention.</li> <li>P273: Avoid release to the environment.</li> </ul>	
	Supplemental information	Not applicable.	
2.3	Other hazards	Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.	



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

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures Substances in preparations / mixtures.

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	<u>≥</u> 25	25068-38-6	500-033-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411
Carbon Black	< 5	1333-86-4	215-609-9	Not classified^

Notes: For full text of H phrases see section 16. ^See Section: 11

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



4.1	Description of first aid measures	
	Self-protection of the first aider	No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing immediately. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Check the vital functions. Keep cool.
	Inhalation	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.
	Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention.
	Eye Contact	IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
	Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain immediate medical attention.
4.2	Most important symptoms and effects, both acute and delayed	Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically. No antidotes known.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1	Extinguishing media	
	Suitable Extinguishing media	Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or CO2.
	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	May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen.
5.3	Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit. Keep containers cool by spraying with water if exposed to fire. Evacuate if necessary. Do not allow run-off from fire fighting to enter drains or water courses.



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SECH	ION 6: ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions, protective equipment and emergency procedures	No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing and wash all affected areas with plenty of water.	
6.2	Environmental precautions	Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.	
6.3	Methods and material for containment and cleaning up	Contain spillages. Cover spills with inert absorbent material. Recover product where possible. Ventilate the area and wash spill site after materia up is complete.	
6.4	Reference to other sections	See Also Section: 8, 13.	
SECT	ION 7: HANDLING AND STORAGE		
7.1	Precautions for safe handling	When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Avoid all contact. Remove contaminated clothing and wash clothing before reuse.	
7.2	Conditions for safe storage, including any incompatibilities Storage temperature	Keep only in original packaging. Keep in a well ventilated place. Keep container closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and	
7.3	Storage life Incompatible materials <b>Specific end use(s)</b>	ignition sources. Stable at ambient temperatures. Keep away from oxidising substances. Avoid contact with acids and alkalis. See Section: 1.2.	
SECT	ION 8: EXPOSURE CONTROLS/PERSONAL	PROTECTION	
8.1 8.1.1	Control parameters Occupational Exposure Limits	Not applicable	
8.1.2 8.2 8.2.1	Biological limit value Exposure controls Appropriate engineering controls	Not established. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces.	
8.2	Exposure controls	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to	
8.2 8.2.1	Exposure controls Appropriate engineering controls Personal protection equipment	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces. Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid all contact. Avoid inhalation of vapours that may be evolved at elevated temperatures. Wear eye protection with side protection (EN166). Eyewash bottles should be	

and respiratory irritation if inhaled.



9.

# SAFETY DATA SHEET

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#### 8.2.3 Environmental Exposure Controls

Avoid release to the environment. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

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

Black Paste
Mild odour / Characteristic
Not available
Not determined
Not determined
> 150 °C
>240 °C [Closed cup]
Not determined
Not applicable
Not applicable
Not determined
Not determined
1.31
Water: Insoluble
Not determined
Not determined
Not determined
Dynamic viscosity: 15 - 50 Pa.s (50 °C)
Not explosive
Not oxidising
None known

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

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- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous decomposition product(s)

Stable under normal conditions.

Stable under normal conditions.

Hazardous polymerisation will not occur.

Avoid prolonged storage at elevated temperature.

Keep away from oxidising substances. Avoid contact with acids and alkalis. Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects Acute toxicity - Oral

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black Acute toxicity - Dermal

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

### Acute toxicity - Inhalation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

#### Skin corrosion/irritation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Not classified - LD50 > 2 000 mg/kg bw/day (rat) OECD 420

Not classified - LD50 > 10 000 mg/kg bw/day (rat) OECD 401 Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Not classified - LD50 > 2 000 mg/kg bw/day (rat) OECD 402

Not classified - No data Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l Not classified - No data

Not classified - Weight of evidence approach Mixture: Skin Irrit. 2; H315: Causes skin irritation. Skin Irrit. 2; H315: Causes skin irritation. EU Harmonised Classification SCL H315  $\geq$  5% Not classified – Non-irritant (rabbit) OECD 404



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#### Serious eye damage/irritation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

#### Respiratory or skin sensitization

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

#### Germ cell mutagenicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

#### Carcinogenicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Carbon Black

#### **Reproductive toxicity**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

#### Carbon Black

#### STOT - single exposure

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

#### STOT - repeated exposure

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Carbon Black

#### Aspiration hazard

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black

11.2 Other information

Mixture: Eye Irrit. 2; H319: Causes serious eye irritation. Eye Irrit. 2; H319: Causes serious eye irritation. EU Harmonised Classification SCL H319  $\geq$  5%

Not classified – Non-irritant (rabbit) OECD 405

Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction. Skin Sens. 1; H317: May cause an allergic skin reaction. EU Harmonised Classification

Not classified – Skin: Negative Guinea pig OECD406

Not classified –Respiratory sensitization: Negative Weight of evidence approach Mixture: Based upon the available data, the classification criteria are not met. Not classified - In vitro: Negative (Bacteria) OECD 472 In vivo: Negative

(mouse) Chromosome aberration assay

Not classified - In vitro: Negative (Bacteria) OECD 471 In vivo: Positive (mouse) OECD 476

Mixture: Based upon the available data, the classification criteria are not met. No specific effects and/or symptoms have been reported or known.

Oral: Not classified – NOEL (rat) 15-100 mg/kg OECD 453

Dermal: Not classified – NOEL (mouse) 100 mg/kg OECD 453

Not classified - Weight of evidence approach Not classified according to current CLP Regulations.

Carbon black is listed by IARC as a Group 2B substance (possibly carcinogenic), but IARC monographs Vol. 65 and 93 state that there is inadequate evidence to classify carbon black as carcinogenic to humans. Additionally, IARC monograph Vol. 93 states that no significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint. Carbon black in this mixture is in a bound form.

Mixture: Based upon the available data, the classification criteria are not met. No specific effects and/or symptoms have been reported or known.

Toxicity for reproduction: Not classified –NOAEL (rat) 50-540 mg/kg/d OECD 416 238 Days

Developmental Toxicity: Not classified – NOAEL (rat) > 540 mg/kg/d OECD 414 6-15 Days

Toxicity for reproduction: Not classified - Weight of evidence approach Developmental Toxicity: Not classified - Weight of evidence approach Mixture: Based upon the available data, the classification criteria are not met. Not classified - No data

Not classified - No specific effects and/or symptoms have been reported or known. Inhalation: Weight of evidence approach

Mixture: Based upon the available data, the classification criteria are not met. Oral: Not classified – NOAEL (rat) 50 mg/kg bw/day OECD 408 14week(s) Inhalation: Not classified - No data

Dermal: Not classified - NOAEL (mouse) 100 mg/kg bw/day OECD 408 13week(s)

Oral: Not classified - No specific effects and/or symptoms have been reported or known (rat) study result 1985

Inhalation: Not classified - No effects observed NOAEL 1 mg/m<sup>3</sup> (rat) NOAEL 1 mg/m<sup>3</sup> (mouse) NOAEL 1 mg/m<sup>3</sup> (Hamster)

Dermal: Not classified - No specific effects and/or symptoms have been reported or known NOEL 20% (mouse) study result 1958

Mixture: Based upon the available data, the classification criteria are not met. Not classified - Not applicable

Not classified - Not applicable

None.



Toxicity

12.1

12.6

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	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. EU Harmonised Classification
	Carbon Black	Not classified - LC0 (Fish) > 1 000 mg/L OECD 403
12.2	Persistence and degradability	The product is likely to persist in the environment.
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Not biodegradable (Hydrolysis rate – 82%, 28 days) OECD 301 F
	Carbon Black	Not biodegradable - Inorganic
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
	reaction product: bisphenol-A-(epichlorhydrin) epoxy	BCF 3-31 QSAR
	resin (number average molecular weight ≤ 700)	Log Kow ≥ 2.918 25 °C EU Method A8
	Carbon Black	The substance has low potential for bioaccumulation.
12.4	Mobility in soil	The product is predicted to have low mobility in soil.
	reaction product: bisphenol-A-(epichlorhydrin) epoxy	Log Koc 2.65 QSAR (SRC PCKOCWIN v2.0)
	resin (number average molecular weight ≤ 700)	Distribution of: Air 0%, Sediment 1.9%, Soil 84.3%, Water 13.8% Mackay level
	Carbon Black	The substance is predicted to have low mobility in soil. Insoluble in water.
12.5	Results of PBT and vPvB assessment	No data for the mixture as a whole. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Not classified as PBT or vPvB.

Not classified as PBT or vPvB. Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer: No components of the mixture are listed Regulation (EC) No 517/2014: No components of the mixture are listed

Mixture: Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.

#### SECTION 13: DISPOSAL CONSIDERATIONS

**SECTION 12: ECOLOGICAL INFORMATION** 

#### 13.1 Waste treatment methods

Carbon Black

Other adverse effects

Dispose of this material and its container as hazardous waste. Send after pretreatment to an appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation. Recover or recycle if possible.

### **SECTION 14: TRANSPORT INFORMATION**

		Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
14.1	UN number	UN3082	UN3082	UN3082
14.2	UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY
1414	or proper shipping name	HAZARDOUS	HAZARDOUS	HAZARDOUS
		SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,
		N.O.S. (reaction product:	N.O.S. (reaction product:	N.O.S. (reaction product:
		Bisphenol – A –	Bisphenol – A –	Bisphenol – A –
		(epichlorhydrin) epoxy	(epichlorhydrin) epoxy	(epichlorhydrin) epoxy
		resin (number average	resin (number average	resin (number average
		· · · · ·	· · ·	molecular weight ≤ 700))
112	Transport bazard alace(ac)	molecular weight ≤ 700)) 9	molecular weight ≤ 700)) 9	9
14.3	Transport hazard class(es)		•	-
	Classification code:	90	Not applicable	Not applicable
	Hazard Identification Number	M6	Not applicable	Not applicable
14.4	Packing group			
14.5	Environmental hazards	Environmentally	Classified as a Marine	Environmentally
		hazardous substance	Pollutant.	hazardous substance
14.6	Special precautions for user			
	Special Provisions	274, 335, 375, 601	274, 335, 375, 601	A97, A158, A197
	Limited Quantities	5L	5L	30kg G
	Excepted Quantities	E1	E1	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL	Not applicable		
	73/78 and the IBC Code			
14.8	Additional Information	None known		



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### **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1 National regulations

India

Authorisations and/or Restrictions On Use Volatile Organic Compound Content (%):

None known. None. 0%

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

The following sections contain revisions or new statements: Not applicable - No previous versions

Version: 06-JUN-2018

Date of preparation: 06-JUN-2018

Date Previous Issue: Not applicable

This Safety Data Sheet was prepared in accordance with GHS Revision 7 and EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

#### **References:**

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700) (CAS No. 25068-38-6), Carbon Black (CAS No. 1333-86-4). EU Harmonised Classification(s) for bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700) (CAS No. 25068-38-6).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

## LEGEND

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
BCF	Bioconcentration factor (BCF)
CAS	CAS: Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	EC: European Community
EU	European Union
ΙΑΤΑ	IATA: International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long Term Exposure Limit
NOEC	No Observed Effect Concentration
NOAEL	no observed adverse effect level
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
STEL	Short Term Exposure Limit
UN	United Nations
vPvB	vPvT: very Persistent and very Toxic
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Hazard classification / Classification code: Skin Irrit. 2; Skin corrosion/irritation, Category 2 Skin Sens. 1; Skin Sensitisation, Category 1 Eye Irrit. 2; Eye Irritation, Category 2 Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2

#### Hazard Statement(s)

H315: Causes skin irritation.H317: May cause an allergic skin reaction.H319: Causes serious eye irritation.H411: Toxic to aquatic life with long lasting effects.

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.

#### Disclaimers

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