



# SAFETY DATA SHEET

Version: 25-JUNE-2018 Revision date: 25-JUNE-2018  
ACCORDING TO OSHA HCS (29 CFR 1910.1200)

## S1006 Adhesive – Part A – Kits 1 and 2

### SECTION 1: IDENTIFICATION

#### Product identifier

Product Name S1006 Adhesive – Part A – Kits 1 and 2  
Product code Not applicable  
Product type Mixture

#### Recommended use of the chemical and restrictions on use

Identified Use(s) Adhesive. Epoxy Resin  
Uses Advised Against None known.

#### Details of the supplier of the safety data sheet

Name of Supplier Tyco Electronics UK Ltd  
Address of Supplier Faraday Road, Dorcan, Swindon, Wiltshire, SN3 5HH, United Kingdom  
Telephone +44 (0) 1793 52 81 71 (Head Office)  
Monday - Friday 08:00 - 17:00 (GMT)  
Fax +44 1793 57 2516  
E-Mail (competent person) msdsmaterialsuk@te.com

#### Emergency telephone number

Emergency Phone No. +44 1793 528171 GMT (Monday to Friday 08:00 - 17:00)  
Languages spoken English

### SECTION 2: HAZARDS 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  
Serious eye damage/irritation, Category 2  
Environmental hazards Hazardous to the aquatic environment, Chronic, Category 2  
Contains: Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

#### Hazard Pictogram(s)



#### 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.  
Avoid breathing mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water.  
If skin irritation or rash 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.  
Take off contaminated clothing and wash it before reuse.  
Avoid release to the environment.

#### Precautionary Statement(s)

Not applicable.

#### Supplemental information

#### Other hazards

Water: This substance is not readily biodegradable.



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Not applicable

Mixtures Substances in preparations / mixtures.

Chemical identity of the substance	%W/W	Synonym(s)	CAS No.	Hazard classification
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	60 - 100	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25068-38-6	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Serious eye damage/irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2  <b>Specific Concentration Limit</b> Skin corrosion/irritation, Category 2: C $\geq$ 5% Serious eye damage/irritation, Category 2: C $\geq$ 5%
Silane, dichlorodimethyl-, reaction products with silica*	1 - 5	didecyl-(E)-but-2-enedioate	68611-44-9	Not classified

\* See Section: 15

### SECTION 4: FIRST AID MEASURES



#### Description of first aid measures

Self-protection of the first aider

Inhalation

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing immediately. Check the vital functions. Keep cool.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Continue to wash the affected area for at least 15 minutes. Seek medical attention if irritation persists.

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. Seek medical attention if irritation persists.

Ingestion

IF SWALLOWED: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

#### Most important symptoms and effects, both acute and delayed

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

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

Suitable Extinguishing media

Product is not classified as flammable, but will burn on prolonged exposure to flame or high temperature. Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or CO<sub>2</sub>.

Unsuitable extinguishing media

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

#### Special hazards arising from the substance or mixture

May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide



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### 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. Use water spray to dilute toxic gases. Evacuate if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 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. Eliminate sources of ignition. Avoid contact with skin and eyes. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

### Methods and material for containment and cleaning up

**Small spillages:** Cover spills with inert absorbent material. Dike area to contain the spill and prevent releases to sewers, drains, or other waterways. Dispose of contents in accordance with local, state or national legislation.

**Large spillages:** Stay upwind/keep distance from source. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete. Dispose of contents in accordance with local, state or national legislation.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

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. Keep container tightly closed. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Remove contaminated clothing and wash clothing before reuse.

### Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Keep in a well ventilated place. Keep container closed.

Storage temperature

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep from direct sunlight.

Storage life

Stable at ambient temperatures. 23 °C

Incompatible materials

Keep away from oxidising substances. Avoid contact with acids and alkalis.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Occupational Exposure Limits

Not established.

#### Biological limit value

Not established.

#### Exposure controls

#### Appropriate engineering controls

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. Adequate ventilation must be used.

### Personal protection equipment

Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid contact with skin and eyes. Avoid inhalation of vapours that may be evolved at elevated temperatures. Wash contaminated clothing before reuse.

Eye/ face protection

Eye protection with side protection. Eyewash bottles should be available.





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## S1006 Adhesive – Part A – Kits 1 and 2

Skin protection (Hand protection/ Other)



### Hand protection

Wear impervious gloves. Recommended: Protective index 6, corresponding > 480 minutes of permeation time. Nitrile rubber (0.4 mm), Butyl rubber (0.7 mm), Polyvinyl chloride - PVC, Neoprene.

Respiratory protection



### Body protection

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

In case of inadequate ventilation wear respiratory protection. Recommended: Type A-P2

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Pale yellow Liquid
Odour	Mild odour
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point	-16 °C
Initial boiling point and boiling range	>200 °C
Flash point	>200 °C [Closed cup]
Evaporation rate	Not determined
Flammability (solid, gas)	Not classified as flammable.
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	<0.0004 hPa
Vapour density	Not determined
Relative density	1.17 @ 20 °C
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	>400 °C
Decomposition Temperature	>200 °C
Viscosity (mPa. s)	Not determined
<b>Other information</b>	
Density	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Reacts with strong oxidizing substances. Strong exothermic reaction with acids. Exothermic reaction with alkalis. Contact with amines may form explosive gases.
<b>Conditions to avoid</b>	Keep away from sources of ignition.
<b>Incompatible materials</b>	Keep away from oxidising substances. Avoid contact with acids and alkalis. Amines
<b>Hazardous decomposition product(s)</b>	Combustion products: Carbon monoxide, Carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity - Oral

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

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

Not classified

LD50 (rat) >2,000 mg/kg (OECD 420)

#### Acute toxicity - Dermal

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

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

Not classified

LD50 (skin, rat) mg/kg: >2000 (OECD 402)



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## S1006 Adhesive – Part A – Kits 1 and 2

### Acute toxicity - Inhalation

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Skin corrosion/irritation

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Serious eye damage/irritation

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Respiratory or skin sensitization

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Germ cell mutagenicity

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Carcinogenicity

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Reproductive toxicity

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### STOT - single exposure

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### STOT - repeated exposure

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Aspiration hazard

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

### Information on likely routes of exposure

Inhalation

Ingestion

Skin Contact

Eye Contact

### Early onset symptoms related to exposure

### Delayed health effects from exposure

### Exposure levels and health effects

### Interactive effects

### Other information

NTP Report on Carcinogens

IARC Monographs

OSHA Designated Carcinogen

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

Not classified

LC0 (rat) 0.00008 ppm (5 hour) (Unnamed)

Mixture: Skin Irrit. 2; Causes skin irritation.

Skin Irrit. 2

Irritating to skin. (rabbit) (OECD 404) Harmonised Classification

Mixture: Eye Irrit. 2; Causes serious eye irritation.

Eye Irrit. 2

Not irritating to eyes (rabbit) (OECD 405) Harmonised Classification

Mixture: Skin Sens. 1; May cause an allergic skin reaction.

Skin Sens. 1

Sensitisation (mouse): Positive (OECD 429) Harmonised Classification

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

Not classified

In vitro: Positive. Guideline: None (Unnamed, 1982); Negative (Bacteria) (OECD 472)

In vivo: No data

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

Not classified

NOAEL (rat) mg/kg bw/day 100 (104 week(s)) No evidence of carcinogenic effects. (OECD 453)

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

Not classified

Reproductive toxicity: NOAEL (rat) mg/kg bw/day 180. No effects observed (OECD 414)

Developmental toxicity: NOAEL (rat) mg/kg bw/day >540. No effects observed (OECD 414)

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

Not classified

No data

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

Not classified

Oral: NOAEL (rat) mg/kg bw/day 50. No effects observed (OECD 408)

Dermal: NOAEL (mouse) mg/kg bw/day 100. No effects observed (OECD 411)

Inhalation: No data

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

Not classified

No data

Unlikely – accidental exposure

Unlikely – accidental exposure

Possible – accidental exposure

Unlikely – accidental exposure

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

None known

None known

None known

Not listed

Not listed

Not listed



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### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b> Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	Aq. Chronic 2; Toxic to aquatic life with long lasting effects. Aq. Chronic 2 Harmonised Classification Acute toxicity: EC50 (Daphnia magna) mg/l 1.1-2.8 (48 hour) (OECD 202); EC50 (Algae) mg/l 9.1 (72 hour) (Unnamed, 1991) Chronic Toxicity: NOEC (Daphnia magna) mg/l 0.3 (21 days) (OECD 211) No data for the mixture as a whole. Little or no biodegradation has been observed (OECD 301F)
<b>Persistence and degradability</b> Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	No data for the mixture as a whole. Log Kow 2.918. Low bioaccumulation potential.
<b>Bioaccumulative potential</b> Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	No data for the mixture as a whole. Log Kow 2.918. Low bioaccumulation potential.
<b>Mobility in soil</b> Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	No data for the mixture as a whole. Log Kow 2.918. The substance has moderate mobility in soil.
<b>Results of PBT and vPvB assessment</b> Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	No data for the mixture as a whole. Not determined.
<b>Other adverse effects</b>	EU Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer: No components of the mixture are listed EU Regulation (EC) No 517/2014: No components of the mixture are listed. Does not contribute to global warming. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Dispose of wastes in an approved waste disposal facility. Recover or recycle if possible. Containers of this material may be hazardous when empty since they retain product residue. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Avoid release to the environment.
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### SECTION 14: TRANSPORT INFORMATION

	<b>Road/Rail (ADR/RID)</b>	<b>Sea transport (IMDG)</b>	<b>Air (ICAO/IATA)</b>
<b>UN number</b>	UN 3082	UN 3082	UN 3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol A-(epichlorhydrin) epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol A-(epichlorhydrin) epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol A-(epichlorhydrin) epoxy resin)
<b>Transport hazard class(es)</b>	9	9	9
<b>Hazard Identification Number</b>	90	Not applicable	Not applicable
<b>Classification code</b>	M6	Not applicable	Not applicable
<b>Packing group</b>	III	III	III
<b>Environmental hazards</b>	Environmentally hazardous substance	Classified as a Marine Pollutant.	Environmentally hazardous substance
<b>Special precautions for user</b>			
Special Provisions	274, 335, 601	274, 335	A97, A158
Limited Quantities	30kg	30kg	30kg
Excepted Quantities	Unknown	Unknown	Not applicable
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable		
<b>Additional Information</b>	None known		



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## S1006 Adhesive – Part A – Kits 1 and 2

### SECTION 15: REGULATORY INFORMATION

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

#### US Federal Regulations

TSCA Inventory

TSCA Chemical Data Reporting (CDR) Rule

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin: Exempt from reporting

Silane, dichlorodimethyl-, reaction products with silica: Subject to 25,000 lb reporting threshold

NIOSH Occupational Carcinogen List

No components of the mixture are listed

OSHA List of highly hazardous chemicals, toxics and reactives

Not applicable

#### EU regulations

Authorisations and/or Restrictions On Use

None.

CoRAP Substance Evaluation

Reaction product: bisphenol A-(epichlorhydrin); epoxy resin: Substance evaluated in 2015; evaluating Member State has proposed to ask the registrants to provide further information.

Wassergefährdungsklasse (Germany)

Water hazard class: 2

### 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.

Version: 25-JUNE-2018

Revision date: 25-JUNE-2018

Date Previous Issue: 11-SEPT-2014

#### References:

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (CAS No. 25068-38-6). EU Harmonised Classification(s) for Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (CAS No. 25068-38-6).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin corrosion/irritation, Category 2	Specific Concentration Limit
Skin Sensitisation, Category 1	Threshold Calculation
Serious eye damage/irritation, Category 2	Specific Concentration Limit
Hazardous to the aquatic environment, Chronic, Category 2	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
IATA	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
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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## S1006 Adhesive – Part A – Kits 1 and 2

### Hazard classification / Classification code:

Skin corrosion/irritation, Category 2  
Skin Sensitisation, Category 1  
Serious eye damage/irritation, Category 2  
Hazardous to the aquatic environment, Chronic, Category 2

### Hazard Statement(s)

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