



# SAFETY DATA SHEET

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

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

### SECTION 1: IDENTIFICATION

**Product identifier**

Product Name S1006 Adhesive – Part B – 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: Hardener.  
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 1B  
Skin Sensitisation, Category 1  
Serious eye damage/irritation, Category 1  
Environmental hazards Hazardous to the aquatic environment, Chronic, Category 2

Contains: Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and Triethylenetetramine

**Hazard Pictogram(s)****Signal Word(s)**

Danger

**Hazard Statement(s)**

Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.  
Do not breathe mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.

**Precautionary Statement(s)**

Take off contaminated clothing and wash it before reuse.  
Avoid release to the environment.

**Supplemental information**

Not applicable.

**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
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids	60 - 100	FATTY ACID-POLYETHYLAMINE POLYMER	68082-29-1	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Serious eye damage/irritation, Category 1 Hazardous to the aquatic environment, Chronic, Category 2
Triethylenetetramine	7 - 13	Trientine 3,6-diazaoctanethylenediamin	112-24-3	Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4 Skin corrosion/irritation, Category 1 Skin Sensitisation, Category 1 Hazardous to the aquatic environment, Chronic, Category 3
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

Skin Contact

Eye Contact

Ingestion

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

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

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.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Obtain immediate medical attention.

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. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

Causes severe skin burns and eye damage. May cause an allergic skin reaction. The effect of inhalation of the vapour or the fumes may be delayed.

Treat symptomatically.

IF IN EYES: Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

Suitable Extinguishing media

Unsuitable extinguishing media

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

**Advice for fire-fighters**

As appropriate for surrounding fire. Water spray, foam, dry powder or CO2.

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

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

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit. Recommended: EN 469. 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.



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### 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. 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:** Dilute with water. Allow small spillages to evaporate provided there is adequate ventilation. Alternatively, Absorb spillage in inert material and shovel up. Dispose of contents in accordance with local, state or national legislation.

**Large spillages:** Stay upwind/keep distance from source. Adsorb spillages onto sand, earth or any suitable adsorbent material. Sweep spilled substances into containers. Recover the product where possible. Avoid release to the environment. 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

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 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. Keep containers properly sealed when not in use.

Storage temperature

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

Storage life

Stable at ambient temperatures. 2 – 40 °C. Recommended: 23 °C

Incompatible materials

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

Specific end use(s)

See Section: 1.2.

### 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.

#### 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.

Eye/ face protection

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





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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), Neoprene, Butyl rubber (0.7 mm).

**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. Recommended: Type A-P2

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Amber liquid
Odour	Amine-like
Odour threshold	Not available
pH	11
Melting point/freezing point	Not determined
Initial boiling point and boiling range	>200 °C
Flash point	>200 °C [Closed cup]
Evaporation rate	Not determined
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	<0.1 hPa
Vapour density	Not determined
Relative density	0.96
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	>250 °C
Viscosity (mPa. s)	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising
<b>Other information</b>	
Density	960 kg/m <sup>3</sup>
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>	Hazardous polymerisation will not occur. May give off noxious and toxic fumes in a fire.
<b>Conditions to avoid</b>	Heat and ignition sources. Avoid prolonged storage at elevated temperature.
<b>Incompatible materials</b>	Keep away from oxidising substances. Avoid contact with acids and alkalis.
<b>Hazardous decomposition product(s)</b>	Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen



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### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity - Oral

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Acute toxicity - Dermal

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Acute toxicity - Inhalation

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Skin corrosion/irritation

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Serious eye damage/irritation

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Respiratory or skin sensitization

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Germ cell mutagenicity

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Carcinogenicity

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

##### Reproductive toxicity

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Mixture: Based upon the available data, the classification criteria are not met.  
Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

Not classified

LD50 (oral,rat) mg/kg: >2000 (OECD 423)

Acute Tox. 4; Harmful if swallowed. Harmonised Classification

No data

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

Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

Not classified

LD50 > 2000 mg/kg bw/day (rat) OECD 402

Acute Tox. 4; Harmful in contact with skin. Harmonised Classification

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

No data

Mixture: Skin Corr. 1; Causes severe skin burns and eye damage.

Skin Irrit. 2

Irritating to skin. (in vitro) (OECD 439)

Skin Corr. 1 Harmonised Classification

No data

Mixture: Eye Dam. 1; Causes serious eye damage.

Eye Dam. 1

Severely irritating to eyes. (rabbit) (OECD 405)

Skin Corr. 1 Harmonised Classification

No data

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

Skin Sens. 1

Sensitisation (mouse): Positive (OECD 429)

Skin Sens. 1 Harmonised Classification

No data

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

Not classified

In vitro: Negative (OECD 487)

In vivo: No data

Not classified

In vitro: No data

In vivo: No data

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

Not classified

No data

Not classified

No data

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

Not classified

Reproductive toxicity: NOAEL (rat) mg/kg bw/day 1000. No effects observed (OECD 422)

Developmental Toxicity: No data



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Triethylenetetramine	Not classified Reproductive toxicity: No effects observed (rat) (OECD 422) Developmental Toxicity: No data Mixture: Based upon the available data, the classification criteria are not met. Not classified No data
<b>STOT - single exposure</b> Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids Triethylenetetramine	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 1000 (OECD 422) Inhalation: No data Dermal: No data
<b>STOT - repeated exposure</b> Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids Triethylenetetramine	Not classified Oral: No data Inhalation: No data Dermal: No data Mixture: Based upon the available data, the classification criteria are not met. Not classified No data
<b>Aspiration hazard</b> Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids Triethylenetetramine	Not classified No data Not classified No data
<b>Information on likely routes of exposure</b> Inhalation Ingestion Skin Contact Eye Contact	Unlikely – accidental exposure Unlikely – accidental exposure Possible – accidental exposure Unlikely – accidental exposure
<b>Early onset symptoms related to exposure</b>	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.
<b>Delayed health effects from exposure</b>	The effect of inhalation of the vapour or the fumes may be delayed.
<b>Exposure levels and health effects</b>	None known
<b>Other information</b> NTP Report on Carcinogens IARC Monographs OSHA Designated Carcinogen	Not listed Not listed Not listed

## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b> Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids Triethylenetetramine	Mixture: Aq. Chronic 2; Toxic to aquatic life with long lasting effects. Aq. Chronic 2 Acute Toxicity: LC50 (fish) mg/l 7.07 (96 hour) (OECD 203) Chronic Toxicity: No data Aq. Chronic 3 Harmonised Classification Acute Toxicity: No data Chronic Toxicity: No data
<b>Persistence and degradability</b> Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids Triethylenetetramine	No data for the mixture as a whole. Inherently biodegradable, not fulfilling criteria. ECHA registration dossier  No data.



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### Bioaccumulative potential

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

### Mobility in soil

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

### Results of PBT and vPvB assessment

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids

Triethylenetetramine

### Other adverse effects

No data for the mixture as a whole.

Bioconcentration factor (BCF) : 77.4 The substance has high potential for bioaccumulation. ECHA registration dossier

BCF = 2.0 - The substance has low potential for bioaccumulation. ECHA registration dossier

No data for the mixture as a whole.

No data.

No data.

No data for the mixture as a whole.

Not classified as PBT or vPvB.

No data.

Does not contribute to global warming. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and Triethylenetetramine: This chemical has properties and characteristics associated with chemicals detected in ground water.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

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.

## SECTION 14: TRANSPORT INFORMATION

	Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
<b>UN number</b>	UN 1760	UN 1760	UN 1760
<b>UN proper shipping name</b>	CORROSIVE LIQUID, N.O.S (Triethylenetetramine)	CORROSIVE LIQUID, N.O.S (Triethylenetetramine)	CORROSIVE LIQUID, N.O.S (Triethylenetetramine)
<b>Transport hazard class(es)</b>	8	8	8
Hazard Identification Number	80	Not applicable	Not applicable
Classification code	C9	Not applicable	Not applicable
<b>Packing group</b>	II	II	II
<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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### SECTION 15: REGULATORY INFORMATION

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

##### National regulations

TSCA Chemical Data Reporting (CDR) Rule

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids: Exempt from reporting

Triethylenetetramine: Subject to 25,000 lb reporting threshold

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

No components of the mixture are listed

##### EU regulations

Authorisations and/or Restrictions On Use

None.

Wassergefährdungsklasse (Germany)

Water hazard class: 2 (Self classification)

### 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

Date of preparation: 25-JUNE -2018

Date Previous Issue: 11-SEPT-2014

#### References:

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids (CAS No. 68082-29-1). EU Harmonised Classification(s) for Triethylenetetramine (CAS No. 112-24-3). EU classification and labelling inventory Triethylenetetramine (CAS No. 112-24-3).

Classification of the substance or mixture	Classification Procedure
Skin corrosion/irritation, Category 1	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Serious eye damage/irritation, Category 1	Threshold Calculation
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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### Hazard classification / Classification code:

Acute Toxicity (Oral), Category 4  
Acute Toxicity (Dermal), Category 4  
Skin corrosion/irritation, Category 1A/B/C  
Skin corrosion/irritation, Category 2  
Skin Sensitisation, Category 1  
Hazardous to the aquatic environment, Chronic , Category 2  
Hazardous to the aquatic environment, Chronic , Category 3

### Hazard Statement(s)

Harmful if swallowed.  
Harmful in contact with skin.  
Causes severe skin burns and eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.  
Harmful 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.

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