



# SAFETY DATA SHEET



Version: 22-August-2018 Revision date: 22-August-2018  
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

## S1184 Adhesive - Part A

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	S1184 Adhesive – Part A
Product type	Mixture
REACH Registration No.	Not applicable (Mixture)
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Adhesive. Epoxy Resin.
Uses Advised Against	None known.
<b>1.3 Details of the supplier of the safety data sheet</b>	
Supplier	Tyco Electronics UK Ltd 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
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 1793 528171
Languages spoken	English
	GMT (Monday to Friday 08:00 - 17:00)

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
<b>2.1.1 Regulation (EC) No. 1272/2008 (CLP)</b>	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
<b>2.2 Label elements</b>	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	S1184 Adhesive – Part A
Contains:	4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer
Hazard Pictogram(s)	 
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P273: Avoid release to the environment.
Supplemental information	Not applicable.
<b>2.3 Other hazards</b>	None known.



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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.	REACH Registration No.	Hazard classification
Silver	<70	7440-22-4	231-131-3	01-2119555669-21-XXX	Aquatic Acute 1; H400 Aquatic Chronic 1; H410
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	10 - 40	25068-38-6	500-033-5	01-2119456619-26-xxxx	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411
Xylene*	<2	1330-20-7	215-535-7	Not yet assigned in the supply chain	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H335 STOT RE 2; H373 Aquatic Chronic 3; H412
Ethylbenzene*	<1	100-41-4	202-849-4	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412
Toluene*	<0.1	108-88-3	203-625-9	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE. 3; H336 STOT RE. 2; H373 Repr. 2; H361d Aquatic Chronic 3; H412

Notes: For full text of H phrases see section 16. \*Substance with a community exposure limit

### SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

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.

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.

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.

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.

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.

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

Treat symptomatically. No antidotes known.

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### 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 CO<sub>2</sub>.  
 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.
- 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.

### SECTION 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 the product where possible. Ventilate the area and wash spill site after material pick-up is complete.
- 6.4 Reference to other sections**  
 See Also Section 8, 13.

### SECTION 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**  
 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.  
 Storage life Stable at ambient temperatures.  
 Incompatible materials Keep away from oxidising substances. Avoid contact with acids and alkalis. Amines.
- 7.3 Specific end use(s)**  
 See Section: 1.2.

### 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Silver	7440-22-4	-	0.1	-	-	WEL
Xylene, o-,m-,p- or mixed isomers	1330-20-7	50	220	100	441	WEL, Sk, BMGV
		50	221	100	442	IOELV, Sk
Ethylbenzene	100-41-4	100	441	125	552	WEL, Sk
		100	442	200	884	IOELV, Sk
Toluene	108-88-3	50	191	100	384	WEL, Sk
		50	192	100	384	IOELV, Sk



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Source: WEL: Workplace Exposure Limit (UK HSE EH40). IOELV: Indicative Occupational Exposure Limit Value. Bmgv: Biological monitoring guidance value (UK HSE EH40)

Note: Sk - Can be absorbed through skin.

### 8.1.2 Biological limit value

SUBSTANCE	CAS No.	Biological limit value	Biological Guidance Value	Note
Xylene, o-,m-,p- or mixed isomers	1330-20-7	650 mmol methyl hippuric acid/ mol Creatinine	Post shift	Sk, BMGV

Source: Bmgv: Biological monitoring guidance value (UK HSE EH40)

Note: Sk - Can be absorbed through skin.

### 8.1.3 PNECs and DNELs

Not applicable

Silver - Not yet assigned in the supply chain

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer - Not yet assigned in the supply chain

Xylene - Not yet assigned in the supply chain

### 8.2 Exposure controls

#### 8.2.1 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.

#### 8.2.2 Personal protection equipment

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.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection (Hand protection/ Other)



#### Hand protection

Wear impervious gloves (EN374).

**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: A self contained breathing apparatus may be appropriate.

Thermal hazards

Not applicable

### 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.



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## S1184 Adhesive - Part A

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance	Silver / Grey, Viscous
	Odour	Aromatic odour.
	Odour threshold	Not available
	pH	Not determined
	Melting point/freezing point	Not determined
	Initial boiling point and boiling range	> 150 °C
	Flash point	77 °C [Closed cup]
	Evaporation rate	Not determined
	Flammability (solid, gas)	Not applicable
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure	Not determined
	Vapour density	> 2
	Relative density	2.0
	Solubility(ies)	Water: Insoluble
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature	310 °C
	Decomposition Temperature	Not determined
	Viscosity	Not determined
	Explosive properties	Not explosive
	Oxidising properties	Not oxidising
<b>9.2</b>	<b>Other information</b>	None known

### SECTION 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	Stable under normal conditions.
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Hazardous polymerisation will not occur.
<b>10.4</b>	<b>Conditions to avoid</b>	Avoid prolonged storage at elevated temperature.
<b>10.5</b>	<b>Incompatible materials</b>	Keep away from oxidising substances. Avoid contact with acids and alkalis. Amines.
<b>10.6</b>	<b>Hazardous decomposition product(s)</b>	Combustion products: Carbon monoxide, Carbon dioxide.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects</b>	
	<b>Acute toxicity - Oral</b>	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
	4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not classified - LD50 > 2 000 mg/kg bw/day (rat) OECD 420
	Xylene	Not classified - LD50 > 2 000 mg/kg bw/day (rat) EU Method B.1
	<b>Acute toxicity - Dermal</b>	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
	4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not classified - No data
	Xylene	Acute Tox. 4; Harmful in contact with skin. Harmonised Classification
	<b>Acute toxicity - Inhalation</b>	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l
	4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not classified - No data
	Xylene	Acute Tox. 4; Harmful if inhaled. Harmonised Classification
	<b>Skin corrosion/irritation</b>	Mixture: Skin Irrit. 2; H315: Causes skin irritation.
	4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Skin Irrit. 2; H315: Causes skin irritation. EU Harmonised Classification SCL H315 ≥ 5%
	Xylene	Skin Irrit. 2; Causes skin irritation. Harmonised Classification ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and skin.



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## S1184 Adhesive - Part A

### Serious eye damage/irritation

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

Mixture: Eye Irrit. 2; H319: Causes serious eye irritation.

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

Eye Irrit. 2; Causes eye irritation.

ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and skin.

### Respiratory or skin sensitization

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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 - ECHA Registration Endpoint summary: Negative

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

Not classified - In vitro: Negative (mouse lymphoma L5178Y cells) Unnamed, 1982 In vivo: No data

Not classified - In vitro: Negative (Chinese hamster Ovary)

EU Method B.10 In vivo: Negative (mouse) OECD 478

### Germ cell mutagenicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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

No specific effects and/or symptoms have been reported or known.

No specific effects and/or symptoms have been reported or known.

Not classified - Negative (rat) EU Method B.32

### Carcinogenicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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

No specific effects and/or symptoms have been reported or known.

No specific effects and/or symptoms have been reported or known.

Not classified - ECHA Registration Endpoint summary: Not classified for

reproductive or developmental toxicity.

### Reproductive toxicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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

Not classified - No data

STOT SE 3; May cause respiratory irritation.  
ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and skin.

### STOT - single exposure

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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

Not classified - No data

STOT RE 2; May cause damage to organs through prolonged or repeated exposure.

### STOT - repeated exposure

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

Oral: Adverse effects observed – NOAEL (rat) 250 mg/kg bw/day

Inhalation: Adverse effects observed – NOAEC (rat) 3515 mg/m<sup>3</sup>

Dermal: Not classified - No data

### Aspiration hazard

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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

Not classified - Not applicable

Asp. Tox. 1; May be fatal if swallowed and enters airways.

Hydrocarbon

## 11.2 Other information

None.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Silver

Mixture: Aquatic Acute 1; H400: Very toxic to aquatic life.

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Aquatic Acute 1; H400: Very toxic to aquatic life.

Short term: LC50 (fish) mg/l 0.12 (Bielmyer GK et al, 2007)

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Long Term: NOEC (Fish) mg/l 0.13 (Ward TJ et al, 2006)

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. EU Harmonised Classification

Xylene

Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. EU Harmonised Classification

Short term: Not classified - LC50 (fish) mg/l 2.6 OECD 203

Long Term: NOEC (Fish) mg/l >1.3 (Walsh et al, 1977)



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## S1184 Adhesive - Part A

<b>12.2 Persistence and degradability</b>	The product is likely to persist in the environment.
Silver	Not applicable for inorganic substances
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not biodegradable (Hydrolysis rate – 82%, 28 days) OECD 301 F
Xylene	Readily biodegradable. (10 Days) OECD 301 F
Ethylbenzene	Readily biodegradable. ECHA registration dossier
Toluene	Water: Readily biodegradable. ECHA registration dossier
<b>12.3 Bioaccumulative potential</b>	The product has low potential for bioaccumulation.
Silver	BCF = 70 - The substance has low potential for bioaccumulation. ECHA registration dossier
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	BCF 3-31 QSAR
Xylene	Log Kow $\geq$ 2.918 25 °C EU Method A8
Ethylbenzene	The substance has low potential for bioaccumulation. ECHA registration dossier
Toluene	The substance has low potential for bioaccumulation. ECHA registration dossier
<b>12.4 Mobility in soil</b>	The product is predicted to have low mobility in soil.
Silver	The substance is predicted to have low mobility in soil. ECHA registration dossier
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Log Koc 2.65 QSAR (SRC PCKOCWIN v2.0)
Xylene	Distribution of: Air 0%, Sediment 1.9%, Soil 84.3%, Water 13.8% Mackay level III
Ethylbenzene	The substance is predicted to have moderate mobility in soil. ECHA registration dossier
Toluene	The substance is predicted to have moderate mobility in soil. ECHA registration dossier
<b>12.5 Results of PBT and vPvB assessment</b>	The product is predicted to have high mobility in soil. ECHA registration dossier
Silver	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.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not classified as PBT or vPvB. ECHA registration dossier
Xylene	Not classified as PBT or vPvB. ECHA registration dossier
Ethylbenzene	Not classified as PBT or vPvB. ECHA registration dossier
Toluene	Not classified as PBT or vPvB. ECHA registration dossier
<b>12.6 Other adverse effects</b>	Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014).
Toluene	This chemical is known to leach through soil into ground water under certain conditions.

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	Dispose of wastes in an approved waste disposal facility. Recover or recycle if possible.
Waste code(s) / waste designation(s)	08 04 09 Packaging waste: 15 01 10
<b>13.2 Additional Information</b>	Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.





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## S1184 Adhesive - Part A

### SECTION 14: TRANSPORT INFORMATION

	Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
<b>14.1 UN number</b>	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
<b>14.3 Transport hazard class(es)</b>	9	9	9
Classification code:	90	-	-
Hazard Identification Number	M6	-	-
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	Environmentally hazardous substance	Classified as a Marine Pollutant.	Environmentally hazardous substance
<b>14.6 Special precautions for user</b>			
Special Provisions	274, 335, 601	274, 335, 601	A97, A158
Limited Quantities	5L	5L	30kg G
Excepted Quantities	E1	E1	-
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable		
<b>14.8 Additional Information</b>	None known		

### SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>15.1.1 EU regulations</b>	
Authorisations and/or Restrictions On Use	Toluene: Entry 48: Restricted as a substance or in mixtures > 0.1% w/w used in adhesives or spray paints for the general public
Volatile Organic Compound Content (%):	2.61%
<b>15.1.2 National regulations</b>	
Wassergefährdungsklasse (Germany)	Water hazard class: 3 (Self classification)
<b>15.2 Chemical Safety Assessment</b>	Silver - A REACH chemical safety assessment is not yet available for this substance. 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer - A REACH chemical safety assessment is not yet available for this substance. Xylene - A chemical safety assessment is not required under REACH.

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2015/830 format, all sections have been updated to include new information. Please review SDS with care.

Version: 22-August-2018

Date of preparation: 22-August-2018

Date Previous Issue: 2014-10-20

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

#### References:

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for Silver (CAS No. 7440-22-4); 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS No. 25068-38-6); Xylene (CAS No. 1330-20-7); Ethylbenzene (CAS No. 100-41-4); Toluene (CAS No. 108-88-3). EU Harmonised Classification(s) for Silver (CAS No. 7440-22-4); 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS No. 25068-38-6); Xylene (CAS No. 1330-20-7); Ethylbenzene (CAS No. 100-41-4); Toluene (CAS No. 108-88-3)

#### Literature References:

- Bielmyer GK, Grosell M, Paquin PR, Mathews R, Wu KB, Santore RC, Brix KV., 2007, Validation study of the acute biotic ligand model for silver, Environmental Toxicology and Chemistry. 26: 2241-2246
- Ward TJ, Boeri RL, Hogstrand C, Kramer JR, Lussier SM, Stubblefield WA, Wyskiel DC, Gorsuch JW, 2006, Influence of salinity and organic carbon on the chronic toxicity of silver to mysids (*Americamysis bahia*) and silversides (*Menidia beryllina*), Environmental Toxicology and Chemistry. 25: 1809-1816
- Walsh, Armstrong, Bartley, Salman and Frank, 1977, Residues of emulsified xylene in aquatic weed control and their impact on rainbow trout, Appl. Sci. Branch, Eng. Res. Cent. Denver, CO: 15p.





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## S1184 Adhesive - Part A

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 Acute 1; H400	Summation Calculation
Aquatic Chronic 1; H410	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
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

### Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid, Category 2  
Flam. Liq. 3; Flammable Liquid, Category 3  
Asp. Tox. 1; Aspiration hazard, Category 1  
Acute Tox. 4; Acute toxicity, Category 4  
Skin Irrit. 2; Skin corrosion/irritation, Category 2  
Skin Sens. 1; Skin Sensitisation, Category 1  
Eye Irrit. 2; Eye Irritation, Category 2  
Acute Tox. 4; Acute toxicity, Category 4  
STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Repr. 2; Reproductive toxicity, Category 2  
STOT RE 2; Specific target organ toxicity — repeated exposure, Category 2  
Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category 1  
Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic, Category 1  
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic, Category 2  
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic, Category 3

### Hazard Statement(s)

H225: Highly flammable liquid and vapour.  
H226: Flammable liquid and vapour.  
H304: May be fatal if swallowed and enters airways.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H361d: Suspected of damaging the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.  
H412: 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.

### Disclaimers

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