



# SAFETY DATA SHEET

Version: 24-August-2018 Revision date: 24-August-2018  
ACCORDING TO OSHA HCS (29 CFR 1910.1200)

## S1184 Adhesive - Part A

### SECTION 1: IDENTIFICATION

**Product identifier**

Product Name S1184 Adhesive – Part A

**Other Means of Identification**

Product type None  
Mixture

**Recommended use and restrictions**

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

**Details of the supplier of the safety data sheet**

Address of 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

**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 Flammable Liquid, Category 4  
Health hazards Skin corrosion/irritation, Category 2  
Skin Sensitisation, Category 1  
Eye Irritation, Category 2  
Specific target organ toxicity — repeated exposure, Category 2

**Label elements**

Product Name S1184 Adhesive – Part A  
Contains: 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer, Xylene

Hazard Symbol



Optional Hazard Symbol



Signal Word(s)

Warning

Hazard Statement(s)

Combustible liquid.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause damage to organs through prolonged or repeated exposure.



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### Precautionary Statement(s)

Do not breathe mist/vapours/spray.  
Wash hands and exposed skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
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.  
Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.  
Disposal should be in accordance with local, state or national legislation.

### Other hazards

Environmental hazards

Hazardous to the aquatic environment, Acute, Category 1. Hazardous to the aquatic environment, Chronic, Category 1; Toxic to aquatic life with long lasting effects. Avoid release to the environment.

**Percent of the mixture consists of ingredient(s) of unknown acute toxicity:**

0% of the mixture consists of ingredients of unknown acute oral toxicity.  
0% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

Not applicable

**Mixtures** Substances in preparations / mixtures.

Chemical Name	CAS No.	Concentration (%W/W)	Common name(s), synonym(s) of the substance	Hazard classification
Silver	7440-22-4	<70	Ag Granalien, Fine silver, Silver bullion, Silver granules	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	10 - 40	epoxy resin (number average molecular weight $\leq$ 700); reaction product: bisphenol-A-(epichlorohydrin); Reaction product: bisphenol-A-(epichlorohydrin), epoxy resin (number average molecular weight $\leq$ 700)	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
Xylene	1330-20-7	<2	1,2 dimethylbenzene; 1,2-dimethylbenzene, 1,3-dimethylbenzene, 1,4-dimethylbenzene; Dimethylbenzene	Flammable Liquid, Category 3 Acute toxicity, Category 4 - Dermal Acute toxicity, Category 4 - Inhalation Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Aspiration hazard, Category 1 Specific target organ toxicity — single exposure, Category 3 (Respiratory Tract) Specific target organ toxicity — repeated exposure, Category 2

Notes: For full text of H phrases see section 16.



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### SECTION 4: FIRST AID MEASURES



#### 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.

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

Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptomatically. No antidotes known.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

Suitable Extinguishing media

Not flammable but will support combustion. 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.

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

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

#### Special protective equipment and precautions 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

#### 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.

#### Methods and material for containment and cleaning up

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

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.



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### 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 all contact. 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.

Storage life

Stable at ambient temperatures.

Incompatible materials

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

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### 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	Source
Silver, metal and soluble compounds (as Ag)	7440-22-4	-	0.01	-	-	-	OSHA (Z-1) NIOSH
		-	0.1	-	-	-	ACGIH
Xylenes (o-, m-, p-isomers)	1330-20-7	100	435	-	-	-	OSHA (Z-1)
		100	435	150	655	-	NIOSH
		100	-	150	-	A4	ACGIH
Ethylbenzene	100-41-4	100	435	-	-	-	OSHA (Z-1)
		100	435	125	545	-	NIOSH
		20	-	-	-	A3	ACGIH
Toluene	108-88-3	100	375	150	560	-	NIOSH
		200	-	-	-	A4	ACGIH

Source:

OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-1

NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)

ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017

Note:

A3: Confirmed animal carcinogen with unknown relevance to humans.

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

Substance	CAS No.	LTEL (8 hr TWA ppm)	Acceptable ceiling concentration	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	
				Concentration	Maximum duration
Toluene	108-88-3	200	300ppm	500ppm	10 minutes

Source:

OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-2



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### Biological limit value

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Xylenes (o-, m-, p-isomers)	1330-20-7	Methylhippuric acids in urine.	1.5 g/g Creatinine	End of shift	-
Ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid in urine	0.15 g/g Creatinine	End of shift	Ns
Toluene	108-88-3	Toluene in blood Toluene in urine o-Cresol in urine with hydrolysis	0.02 mg/l 0.03 mg/l 0.3 mg/g creatinine	Prior to last shift of workweek End of shift End of shift	- - B

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Biological Exposure Index (BEI) 2017

Note:

B: Background

Ns: Nonspecific

The other components listed in Section 3 do not have occupational exposure limits

### 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 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.



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## S1184 Adhesive - Part A

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

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 (mPa. s)	Not determined

#### Other information

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.
<b>Conditions to avoid</b>	Avoid prolonged storage at elevated temperature.
<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

<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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### 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

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

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

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

Not classified - ECHA Registration Endpoint summary: Not classified for reproductive or developmental toxicity.

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.

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.

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

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

### Aspiration hazard

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

### Information on likely routes of exposure

Inhalation

Ingestion

Skin Contact

Eye Contact

Unlikely – accidental exposure

Unlikely – accidental exposure

Possible – accidental exposure

Unlikely – accidental exposure

### Early onset symptoms related to exposure

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

### Delayed health effects from exposure

May cause damage to organs through prolonged or repeated exposure.

### Other information

NTP Report on Carcinogens

All chemicals are not listed

IARC Monographs

Xylene: Group 3

OSHA Designated Carcinogen

All chemicals are not listed

NIOSH Occupational Carcinogen List

All chemicals are not listed



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### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b>	Mixture: Aquatic Acute 1; H400: Very toxic to aquatic life.
Silver	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)
<b>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
<b>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
	Log Kow $\geq$ 2.918 25 °C EU Method A8
Xylene	The substance has low potential for bioaccumulation. ECHA registration dossier
<b>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)
	Distribution of: Air 0%, Sediment 1.9%, Soil 84.3%, Water 13.8% Mackay level III
Xylene	The substance is predicted to have moderate mobility in soil. ECHA registration dossier
<b>Results of PBT and vPvB assessment</b>	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.
Silver	Not classified as PBT or vPvB. ECHA registration dossier
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not classified as PBT or vPvB. ECHA registration dossier
Xylene	Not classified as PBT or vPvB. ECHA registration dossier
<b>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).

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>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>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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### SECTION 14: TRANSPORT INFORMATION

	Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
<b>UN number</b>	UN3082	UN3082	UN3082
<b>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>Transport hazard class(es)</b>	9	9	9
Hazard Identification Number	90	-	-
Classification code:	M6	-	-
<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, 601	A97, A158
Limited Quantities	5L	5L	30kg G
Excepted Quantities	E1	E1	-
<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		

### SECTION 15: REGULATORY INFORMATION

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

##### US Federal Regulations

TSCA Inventory	Xylene
TSCA Inventory Notification (Active-Inactive) Rule	Silver: active substance; exempt list of active substances Xylene: active substance; exempt list of active substances
TSCA Chemical Data Reporting (CDR) Rule	Silver: subject to 25,000 lb reporting threshold Xylene: subject to 25,000 lb reporting threshold

##### US State Regulations

Poison Prevention Packaging Act	Xylene: Substance requiring special packaging - Solvents for paint or other similar surface-coating material
Proposition 65 (California)	All chemicals are not listed
California State, Safer Consumer Products Regulations	Silver: Candidate Chemicals List Xylene: Initial Candidate Chemicals List
California State, Hazardous Substances Information and Training Act	Silver: Hazardous Substances List - MSDS must be provided under specific circumstances Xylene: Hazardous Substances List

##### EU regulations

Wassergefährdungsklasse (Germany)	Water hazard class: 3 (Self classification)
Volatile Organic Compound Content (%):	2.61%



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### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New format has been issued, all sections have been updated to include new information. Review SDS with care.

**Version** 24-August-2018  
**Revision Date** 24-August-2018  
**Date Previous Issue:** August 1, 2013

#### 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:

1. 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
2. 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
3. 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.

Classification of the substance or mixture	Classification Procedure
Flammable Liquid, Category 4	Flash Point (°C)
Skin corrosion/irritation, Category 2	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Specific target organ toxicity — repeated exposure, Category 2	Threshold Calculation
Hazardous to the aquatic environment, Acute, Category 1	Summation Calculation
Hazardous to the aquatic environment, Chronic, Category 1	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:

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.

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