



SAFETY DATA SHEET

Version: 24-August-2018 Revision date: 24-August-2018
In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

S1184 Adhesive - Part A

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

Product identifier

Product Name S1184 Adhesive – Part A
Other Means of Identification None
Product type Mixture

Recommended use and restrictions

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

Initial Supplier Identifier

Telephone Tyco Electronics UK Ltd
Faraday Road, Dorcan, Swindon, Wiltshire, SN3 5HH, United Kingdom
+44 (0) 1793 52 81 71 (Head Office)
Monday - Friday 08:00 - 17:00 (GMT)
Fax +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 Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

Flammable Liquid, Category 4
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: Contains: 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer, Xylene

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

Warning
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.
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.

Precautionary Statement(s)



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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.
Not applicable.

Supplemental information

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.

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	60 - 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	15 - 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	0.5 - 1.5*	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

*Prescribed Concentration Ranges used for trade secret purposes (Canada Gazette, Part II, Vol. 152, No. 8)



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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.

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

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.

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.

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.

Reference to other sections

See Also Section: 8, 13.



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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.

Specific end use(s)

See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE	CAS No.	8-hour Occupational Exposure Limits			15-minute or ceiling Occupational Exposure Limits		Note
		ppm	mg/m ³	f/cc	STEL (ppm)	STEL (mg/m ³)	
Silver	7440-22-4	-	0.1	-	-	-	Alberta; OEL
Xylene	1330-20-7	100	434	-	150	651	Alberta; OEL
Ethylbenzene	100-41-4	100	434	-	125	543	Alberta; OEL
Toluene	108-88-3	50	188	-	-	-	Alberta, 1; OEL

Source:

Alberta: Occupational Health And Safety Code, 2009

Note: 1 - Can be absorbed through skin.

OEL: Quebec Work Health and Safety Regulations, Health and safety work Act, (chapter S – 2.1, a. 223)

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Silver	7440-22-4	-	0.01	-	0.03	WEL; NW; YK
Xylene	1330-20-7	100	-	150	-	NW
		100	435	150	650	YK, Sk
Ethylbenzene	100-41-4	100	-	125	-	NW
		100	435	125	545	YK
Toluene	108-88-3	50	-	60	-	NW, Sk
		100	375	150	560	YK, Sk

Source:

WEL: Occupational Health and Safety Guidelines Part 5: Chemical Agents and Biological Agents (British Columbia)

NW: WSCC, Occupational Health & Safety Regulations, Northwest Territories Volume 3

Yukon Territory (YK): Occupational Health and Safety Act . O.I.C. 1986/164 Occupational Health Regulations.

Sk - Can be absorbed through skin.



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SUBSTANCE	CAS No.	Time Weighted Average (TWA) (ppm)	STEL (ppm)	Note
Silver	7440-22-4	0.1	0.3	SK
Xylene	1330-20-7	100	150	SK
Ethylbenzene	100-41-4	100	125	SK
Toluene	108-88-3	50	60	SK, Sk

Source:

WEL: Occupational Health and Safety Act, R.R.O. 1990, REGULATION 833, CONTROL OF EXPOSURE TO BIOLOGICAL OR CHEMICAL AGENTS (Ontario)

Saskatchewan (SK): The Occupational Health and Safety Act, 1993. O-1.1 REG 1; The Occupational Health and Safety Regulations, 1996.

Sk - Can be absorbed through skin.

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 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.

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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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
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Other information	
Density	None known

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Oral	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
Acute toxicity - Dermal	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
Acute toxicity - Inhalation	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
Skin corrosion/irritation	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.

Germ cell mutagenicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

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.

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 - single exposure

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

STOT SE 3; May cause respiratory irritation.

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

STOT - repeated exposure

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Xylene

Mixture: Specific target organ toxicity — repeated exposure, Category 2; May cause damage to organs through prolonged or repeated exposure.

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/m³

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

Other information

None.

SECTION 12: ECOLOGICAL INFORMATION

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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Persistence and degradability	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
Bioaccumulative potential	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
Mobility in soil	The substance has low potential for bioaccumulation. ECHA registration dossier
Silver	The product is predicted to have low mobility in soil.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	The substance is predicted to have low mobility in soil. ECHA registration dossier
Xylene	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
Results of PBT and vPvB assessment	The substance is predicted to have moderate 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
Other adverse effects	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

Waste treatment methods	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
Additional Information	Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

SECTION 14: TRANSPORT INFORMATION

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



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SECTION 15: REGULATORY INFORMATION

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

National regulations

CEPA (Canadian Environmental Protection Act) - Priority Substances List Xylene: First Priority Substances List, PSL1

CEPA (Canadian Environmental Protection Act) - List of Toxic Substances Xylene: VOC - Item 65

CEPA (Canadian Environmental Protection Act) - National Pollutant Release Inventory Silver: Threshold Category = 1A, Mass Threshold = 10 tonnes MPO, Concentration Threshold = 1%, Note - Thresholds refer to the total of the pure element and the equivalent weight of the element contained in any compound, alloy or mixture

Xylene: Threshold Category = 1A, Mass Threshold = 10 tonnes MPO, Concentration Threshold = 1%; Threshold Category = 5, Mass Threshold = 1 tonne of 10-tonne total VOC air release, Concentration Threshold = N/A; Note - Thresholds refer to the total of all isomers of xylene: m-xylene (CAS RN 108-38-3), o-xylene (CAS RN 95-47-6) and p-xylene (CAS RN 106-42-3)

CEPA (Canadian Environmental Protection Act) - Environmental Emergency Regulations Xylene: Part 1: Substance Likely to Explode. Concentration \geq 1 % w/w. Minimum quantity = 8000 metric tonnes

Canada - Chemicals Management Plan (CMP) Silver: Phase 3 substance

EU regulations

Wassergefährdungsklasse (Germany) Water hazard class: 2 (Self classification)

Volatile Organic Compound Content (%) 2.61%

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

Date of preparation: 24-August-2018

Date Previous Issue: January 5, 2009

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. Bielmeyer 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



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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

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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