

Version: 16-July-2019 Revision date: 16-July-2019 ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

S1184 Adhesive - Part B

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

1.1	Product identifier	
	Product Name	S1184 Adhesive – Part B
	Product type	Mixture
	REACH Registration No.	Not applicable (Mixture)
1.2	Relevant identified uses of the substance or mixture	
1.2	and uses advised against	
		Adhaaiya Enavy Daain Hardanar
	Identified Use(s)	Adhesive. Epoxy Resin. Hardener
	Uses Advised Against	None known.
1.3	Details of the supplier of the safety data sheet	
	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
		Insusmaterialsuk@te.com
1.4	Emorgonov tolonbono numbor	
1.4	Emergency telephone number	ONT (Mandauta Eridau 00:00 47:00)
	Emergency Phone No.	+44 1793 528171 GMT (Monday to Friday 08:00 - 17:00)
	Languages spoken	English
SECT	ION 2: HAZARDS IDENTIFICATION	
2.1	Classification of the substance or mixture	
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302
		Skin Corr. 1; H314
		Eye Dam. 1; H318
		Skin Sens. 1; H317
		Aquatic Acute 1; H400
		Aquatic Chronic 1; H410
2.2	Label elements	According to Degulation (EC) No. 1979/2008 (CLD)
2.2	Laber elements	According to Regulation (EC) No. 1272/2008 (CLP)
	Draduat Nama	S1194 Adhasiya Dart D
	Product Name	S1184 Adhesive – Part B
	Contains:	3,6,9,12-tetraazatetradecamethylenediamine; Triethylenetetramine; Fatty acids,
		C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and
		triethylenetetramine; Fatty acids, soya, reaction products with
		polyethylenepolyamines
	Hazard Pictogram(s)	
		V V V
	Signal Word(s)	DANGER
	Hazard Statement(s)	H302: Harmful if swallowed.
		H314: Causes severe skin burns and eye damage.
		H317: May cause an allergic skin reaction.
		H410: Very toxic to aquatic life with long lasting effects.
	Precautionary Statement(s)	P264: Wash hands and exposed skin thoroughly after handling.
		P260: Do not breathe mist/vapours/spray.
		P280: Wear protective gloves/protective clothing/eye protection/face protection.
		P303+P361+P353: IF ON SKIN or hair: Take off immediately all contaminated
		clothing. Rinse skin with water.
		P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.



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Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

Supplemental information

2.3 Other hazards

None known.

Not applicable.

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
Fatty acids, soya, reaction products with polyethylenepolyamines	<25	91051-56-8	293-110-5	Not yet assigned in the supply chain	Acute Tox. 4; H302 Skin Irrit. 2 ; H315 Eye Dam. 1 ;H318 Skin Sens. 1; H317
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine	<10	68082-29-1	500-191-5	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Chronic 2; H411
3,6,9,12- tetraazatetradecamethylenediamine	<10	4067-16-7	223-775-9	2119485826-22-XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Triethylenetetramine	<5	112-24-3	203-950-6	Not yet assigned in the supply chain	Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412
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



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SECTION 4: FIRST AID MEASURES



4.1	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. Obtain immediate medical 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. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.
	Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain immediate medical attention.
4.2	Most important symptoms and effects, both acute and delayed	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically. No antidotes known.

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

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media
	Suitable Extinguishing media

Notes to a physician:

Unsuitable extinguishing media

- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for fire-fighters

Combustible Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. 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, Nitrogen oxides

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
- 6.2 Environmental precautions
- 6.3 Methods and material for containment and cleaning up

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.

Contain spillages. Cover spills with inert absorbent material. Recover the product where possible. Ventilate the area and wash spill site after material pickup is complete. See Also Section 8, 13.

6.4 Reference to other sections

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



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7.2 Conditions for safe storage, including any incompatibilities Storage temperature 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.

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

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

Stable at ambient temperatures.

Keep away from oxidising substances. Avoid contact with acids and alkalis. See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Storage life

7.3

8.1.1 Occupational Exposure Limits

Incompatible materials

Specific end use(s)

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m ³)	Note
Silver	7440-22-4	-	0.1	-	-	WEL
Xylene, o-,m-,p- or mixed	1330-20-7	50	220	100	441	WEL, Sk, BMGV
isomers	1330-20-7	50	221	100	442	IOELV, Sk
Ethylbenzene	100-41-4	100	441	125	552	WEL, Sk
Luiyibenzene	100-41-4	100	442	200	884	IOELV, Sk
Toluene	108-88-3	50	191	100	384	WEL, Sk
I UIUEIIE	100-00-3	50	192	100	384	IOELV, Sk

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

Not applicable

Source: Bmgv: Biological monitoring guidance value (UK HSE EH40) Note: Sk - Can be absorbed through skin.

8.1.3 PNECs and DNELs

s and DNELS	not applicable.
	Silver - Not yet assigned in the supply chain
	Fatty acids, soya, reaction products with polyethylenepolyamines - Not yet assigned in the supply chain
	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine - Not yet assigned in the supply chain
	3,6,9,12-tetraazatetradecamethylenediamine - Not yet assigned in the supply chain
	Triethylenetetramine - Not yet assigned in the supply chain
	Xylene - Not yet assigned in the supply chain
	Ethylbenzene - Not yet assigned in the supply chain
	Toluene - Not yet assigned in the supply chain
ure controls	
priato onginooring controls	Provide adequate ventilation when using the material and follow the principles

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.



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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.

Hand protection



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

Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards

Wear impervious gloves (EN374).

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

In case of inadequate ventilation wear respiratory protection. Recommended: A self contained breathing apparatus may be appropriate.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Silver / Grey, Viscous
Odour	Ammonia odour.
Odour threshold	Not available
рН	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	> 150 °C
Flash point	122 °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	315 °C
Decomposition Temperature	Not determined
Viscosity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Other information	None known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

9.2

10.2 Chemical stability

Stable under normal conditions. Stable under normal conditions.



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contact with acids.

Avoid prolonged storage at elevated temperature.

Hazardous polymerisation will not occur. Can polymerise exothermically if in

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

Combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials

11.1

10.6 Hazardous decomposition product(s)

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Mixture: Acute Tox, 4: H302: Harmful if swallowed. Acute toxicity - Oral Calculated acute toxicity estimate (ATE) < 2,000 mg/kg. Fatty acids, soya, reaction products with Acute Tox. 4: Harmful if swallowed. polyethylenepolyamines No data Not classified Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine LD50 (oral,rat) mg/kg: >2000 (OECD 423) 3,6,9,12-tetraazatetradecamethylenediamine Acute Tox. 4; Harmful if swallowed. LD50 (oral,rat) mg/kg: 1716 (OECD 401) Acute Tox. 4; H302: Harmful if swallowed. Harmonised Classification Triethylenetetramine No data **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. Fatty acids, soya, reaction products with Not classified No data polyethylenepolyamines Not classified Fatty acids, C18-unsatd., dimers, oligomeric reaction LD50 > 2000 mg/kg bw/day (rat) OECD 402 products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Acute Tox. 4; Harmful in contact with skin. LD50 (skin,rabbit) mg/kg: 1465 (OECD 402) Acute Tox. 4; H312: Harmful in contact with skin. Harmonised Classification Triethylenetetramine No data Acute Tox. 4; Harmful in contact with skin. Harmonised Classification **Xvlene** Acute toxicity - Inhalation Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l Fatty acids, soya, reaction products with Not classified polyethylenepolyamines No data Fatty acids, C18-unsatd., dimers, oligomeric reaction Not classified products with tall-oil fatty acids and triethylenetetramine No data 3,6,9,12-tetraazatetradecamethylenediamine Not classified No data Triethylenetetramine Not classified No data Acute Tox. 4; Harmful if inhaled. Harmonised Classification **Xylene** Skin corrosion/irritation Mixture: Skin Corr. 1; H314: Causes severe skin burns and eye damage. Fatty acids, soya, reaction products with Skin Irrit. 2; Causes skin irritation. polyethylenepolyamines No data Skin Irrit. 2; Causes skin irritation. Fatty acids, C18-unsatd., dimers, oligomeric reaction Irritating to skin. (in vitro) (OECD 439) products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Skin Corr. 1A; Causes severe skin burns and eye damage. Harmonised Classification Corrosive to skin. (rabbit) (OECD 404) Triethylenetetramine Skin Corr. 1: H314 Harmonised Classification No data **Xylene** Skin Irrit. 2; Causes skin irritation. Harmonised Classification ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and skin. Serious eye damage/irritation Mixture: Eye Dam. 1; H318: Causes serious eye damage. Fatty acids, soya, reaction products with Eye Dam . 1; Causes serious eye damage. polyethylenepolyamines No data Fatty acids, C18-unsatd., dimers, oligomeric reaction Eye Dam. 1; Causes serious eye damage.



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products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine	Severely irritating to eyes. (rabbit) (OECD 405) Eye Dam. 1; Causes serious eye damage.
Triethylenetetramine	Corrosive to eyes. (rabbit) (OECD 405) Skin Corr. 1; H314 Harmonised Classification No data
Xylene	Eye Irrit. 2; Causes eye irritation. ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and
Respiratory or skin sensitization	skin. Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
Fatty acids, soya, reaction products with	Skin Sens. 1; May cause an allergic skin reaction.
polyethylenepolyamines	No data
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Skin Sens. 1; May cause an allergic skin reaction.
products with tall-oil fatty acids and triethylenetetramine	Sensitisation (mouse): Positive (OECD 429)
3,6,9,12-tetraazatetradecamethylenediamine	Skin Sens. 1; May cause an allergic skin reaction. Harmonised Classification Sensitisation (guinea pig) - Positive (OECD 406)
Triethylenetetramine	Skin Sens. 1; H317 Harmonised Classification No data
Xylene	Not classified - ECHA Registration Endpoint summary: Negative
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Fatty acids, soya, reaction products with	Not classified
polyethylenepolyamines	No data
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Not classified
products with tall-oil fatty acids and triethylenetetramine	In vitro: Negative (OECD 487)
2.6.0.10 totroozototrodocomothylopodiomino	In vivo: No data
3,6,9,12-tetraazatetradecamethylenediamine	Not classified In vitro: Negative (OECD 482)
	In vivo: Negative (OECD 482) In vivo: Negative (mouse) (OECD 474)
Triethylenetetramine	Not classified
	In vitro: No data
	In vivo: No data
Xylene	Not classified - In vitro: Negative (Chinese hamster Ovary)
	EU Method B.10 In vivo: Negative (mouse) OECD 478
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
Fatty acids, soya, reaction products with	Not classified
polyethylenepolyamines	No data
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Not classified
products with tall-oil fatty acids and triethylenetetramine	No data
3,6,9,12-tetraazatetradecamethylenediamine	Not classified
Tristhy does at a trace in a	No evidence of carcinogenic effects. (mouse) (OECD 451)
Triethylenetetramine	Not classified No data
Xylene	No specific effects and/or symptoms have been reported or known.
Xylene	Not classified - Negative (rat) EU Method B.32
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
Fatty acids, soya, reaction products with	Not classified
polyethylenepolyamines	No data
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Not classified
products with tall-oil fatty acids and triethylenetetramine	Reproductive toxicity: NOAEL (rat) mg/kg bw/day 1000. No effects observed
	(OECD 422) Developmental Toxicity: No data
3,6,9,12-tetraazatetradecamethylenediamine	Not classified
	Reproductive toxicity: No data
	Developmental Toxicity: No data
Triethylenetetramine	Not classified
	Reproductive toxicity: No effects observed (rat) (OECD 422)
W data a	Developmental Toxicity: No data
Xylene	Not classified - ECHA Registration Endpoint summary: Not classified for
STOT - single exposure	reproductive or developmental toxicity. Mixture: Based upon the available data, the classification criteria are not met.
	mixture. Based upon the available data, the classification chiefta are not met.



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Fatty acids, soya, reaction products with	Not classified
polyethylenepolyamines	No data
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Not classified
products with tall-oil fatty acids and triethylenetetramine	No data
3,6,9,12-tetraazatetradecamethylenediamine	Not classified
	No data
Triethylenetetramine	Not classified
	No data
Xylene	STOT SE 3; May cause respiratory irritation.
•	ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and
	skin.
STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
Fatty acids, soya, reaction products with	Not classified
polyethylenepolyamines	No data
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Not classified
products with tall-oil fatty acids and triethylenetetramine	Oral: NOAEL (rat) mg/kg bw/day 1000 (OECD 422)
	Inhalation: No data
	Dermal: No data
3,6,9,12-tetraazatetradecamethylenediamine	Not classified
	Oral: NOAEL (rat) mg/kg bw/day 50 (OECD 422)
	Inhalation: No data
	Dermal: No data
Triethylenetetramine	Not classified
	Oral: No data
	Inhalation: No data
	Dermal: No data
Xylene	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 ³
	Dermal: Not classified - No data
Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
Fatty acids, soya, reaction products with	Not classified - Not applicable
polyethylenepolyamines	
Fatty acids, C18-unsatd., dimers, oligomeric reaction	Not classified - Not applicable
products with tall-oil fatty acids and triethylenetetramine	
3,6,9,12-tetraazatetradecamethylenediamine	Not classified - Not applicable
Triethylenetetramine	Not classified - Not applicable
Xylene	Asp. Tox. 1; May be fatal if swallowed and enters airways.
	Hydrocarbon
Other information	None.

11.2 Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Aquatic Acute 1; H400: Very toxic to aquatic life.
		Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.
	Silver	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)
	Fatty acids, C18-unsatd., dimers, oligomeric reaction	Aquatic Chronic 2; H411
	products with tall-oil fatty acids	Acute Toxicity: LC50 (fish) mg/l 7.07 (96 hour) (OECD 203)
		Chronic Toxicity: No data
	3,6,9,12-tetraazatetradecamethylenediamine	Aquatic Acute 1; H400: Very toxic to aquatic life.
		Short term: LC50 (fish) mg/l 0.18 (EU Method C.1)
		Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.
		Long Term: No data
	Triethylenetetramine	Aquatic Chronic 3; H412 Harmonised Classification
		Acute Toxicity: No data



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		Chronic Toxicity: No data
	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)
12.2	Persistence and degradability	The product is likely to persist in the environment.
	Silver	Not applicable for inorganic substances
	Fatty acids, soya, reaction products with	No data
	polyethylenepolyamines	
	Fatty acids, C18-unsatd., dimers, oligomeric reaction	Inherently biodegradable, not fulfilling criteria. ECHA registration dossier
	products with tall-oil fatty acids and triethylenetetramine	
	3,6,9,12-tetraazatetradecamethylenediamine	Not readily biodegradable (according to OECD criteria). ECHA registration
		dossier
	Triethylenetetramine	No data.
	Xylene	Readily biodegradable. (10 Days) OECD 301 F
	Ethylbenzene	Readily biodegradable. ECHA registration dossier
	Toluene	Water: Readily biodegradable. ECHA registration dossier
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
	Silver	BCF = 70 - The substance has low potential for bioaccumulation. ECHA
		registration dossier
	Fatty acids, soya, reaction products with	No data
	polyethylenepolyamines	
	Fatty acids, C18-unsatd., dimers, oligomeric reaction	Bioconcentration factor (BCF) : 77.4 The substance has high potential for
	products with tall-oil fatty acids and triethylenetetramine	bioaccumulation. ECHA registration dossier
	3,6,9,12-tetraazatetradecamethylenediamine	No data.
	Triethylenetetramine	No data.
	Xylene	The substance has low potential for bioaccumulation. ECHA registration dossier
	Ethylbenzene	The substance has low potential for bioaccumulation. ECHA registration dossier
	Toluene	BCF = 90 - The substance has low potential for bioaccumulation. ECHA
		an electron tion along in a
		registration dossier
12.4	Mobility in soil	The product is predicted to have low mobility in soil.
12.4	Mobility in soil Silver	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration
12.4	Silver	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier
12.4	Silver Fatty acids, soya, reaction products with	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data.
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data.
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration
12.4	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data.
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	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene Results of PBT and vPvB assessment Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The product is predicted to have high mobility in soil. ECHA registration dossier 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. Not classified as PBT or vPvB. ECHA registration dossier Not classified as PBT or vPvB. ECHA registration dossier
	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene Results of PBT and vPvB assessment Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The product is predicted to have high mobility in soil. ECHA registration dossier 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. Not classified as PBT or vPvB. ECHA registration dossier Not classified as PBT or vPvB. ECHA registration dossier Not classified as PBT or vPvB. ECHA registration dossier
	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene Results of PBT and vPvB assessment Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The product is predicted to have high mobility in soil. ECHA registration dossier 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. Not classified as PBT or vPvB. ECHA registration dossier Not classified as PBT or vPvB.
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	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene Results of PBT and vPvB assessment Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The product is predicted to have high mobility in soil. ECHA registration dossier 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. Not classified as PBT or vPvB. ECHA registration dossier Not classified as PBT or vPvB. ECHA registration dossier
12.5	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene Results of PBT and vPvB assessment Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The product is predicted to have high mobility in soil. ECHA registration dossier 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. Not classified as PBT or vPvB. ECHA registration dossier Not classifie
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12.5	Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene Results of PBT and vPvB assessment Silver Fatty acids, soya, reaction products with polyethylenepolyamines Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6,9,12-tetraazatetradecamethylenediamine Triethylenetetramine Xylene Ethylbenzene Toluene	The product is predicted to have low mobility in soil. The substance is predicted to have low mobility in soil. ECHA registration dossier No data No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier No data. The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The substance is predicted to have moderate mobility in soil. ECHA registration dossier The product is predicted to have high mobility in soil. ECHA registration dossier 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. Not classified as PBT or vPvB. ECHA registration dossier Not classifie



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Toluene

greenhouse gases (Regulation (EC) No 517/2014). This chemical is known to leach through soil into ground water under certain conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste code(s) / waste designation(s)

13.2 Additional Information

Dispose of wastes in an approved waste disposal facility. Recover or recycle if possible.

08 04 09

Packaging waste: 15 01 10

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

14.1 14.2	UN number UN proper shipping name	Road/Rail (ADR/RID) UN1760 CORROSIVE LIQUID, N.O.S. (3,6,9,12- tetraazatetradecamethylenedia mine; Triethylenetetramine)	Sea transport (IMDG) UN1760 CORROSIVE LIQUID, N.O.S. (3,6,9,12- tetraazatetradecamethylenedia mine; Triethylenetetramine)	Air (ICAO/IATA) UN1760 CORROSIVE LIQUID, N.O.S. (3,6,9,12- tetraazatetradecamethylenedia mine; Triethylenetetramine)
14.3	Transport hazard class(es)	8	8	8
	Classification code:	80	Not applicable	Not applicable
	Hazard Identification Number	C10	Not applicable	Not applicable
14.4	Packing group	III	III	111
14.5	Environmental hazards	Environmentally hazardous	Classified as a Marine	Environmentally hazardous
		substance	Pollutant.	substance
14.6	Special precautions for user			
	Special Provisions	274	274	A3
	Limited Quantities	5L	5L	5kg (Y844)
	Excepted Quantities	E1	E1	-
14.7	Transport in bulk according to Annex	Not applicable		
	II of MARPOL 73/78 and the IBC Code			
14.8	Additional Information	None known		

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations		
	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%
15.1.2	National regulations	
	Wassergefährdungsklasse (Germany)	Water hazard class: 3 (Self classification)
15.2	Chemical Safety Assessment	Silver - A REACH chemical safety assessment is not yet available for this substance.
		Fatty acids, soya, reaction products with polyethylenepolyamines - A chemical safety assessment is not required under REACH.
		Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine - A chemical safety assessment is not required under REACH.
		3,6,9,12-tetraazatetradecamethylenediamine - A REACH chemical safety assessment is not yet available for this substance.
		Triethylenetetramine - A chemical safety assessment is not required under REACH.
		Xylene - A chemical safety assessment is not required under REACH.



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Ethylbenzene - A chemical safety assessment is not required under REACH. Toluene - A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

SECTION 11: Acute toxicity - Oral, Skin corrosion/irritation, Serious eye damage/irritation.

Version: 16-July-2019

Date of preparation: 16-July-2019

Date Previous Issue: 22-August-2018

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); Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (CAS No. 68082-29-1); 3,6,9,12-tetraazatetradecamethylenediamine (CAS No 4067-16-7); 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); Triethylenetetramine (CAS No. 112-24-3); Xylene (CAS No. 1330-20-7); Ethylbenzene (CAS No. 112-24-3); Xylene (CAS No. 1330-20-7); Ethylbenzene (CAS No. 100-41-4); Toluene (CAS No. 108-88-3).

Literature References:

1. Walsh, Armstrong, Bartley, Salman and Frank, 1977, Residues of emulsfied 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 According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Acute Tox. 4; H302	Acute Toxicity Estimate Mixture Calculation
Skin Corr. 1; H314	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	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
ΙΑΤΑ	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	H225: High
Flam. Liq. 3; Flammable Liquid, Category 3	H226: Flan
Acute Tox. 4; Acute toxicity, Category 4	H302: Harr
Asp. Tox. 1; Aspiration hazard, Category 1	H304: May
Acute Tox. 4; Acute toxicity, Category 4	H312: Harr

Hazard Statement(s)

H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin.



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Skin Corr. 1A ; Skin corrosion/irritation, Category 1A	H314: Causes severe skin burns and eye damage.
Skin Corr. 1B; Skin corrosion/irritation, Category 1B	H314: Causes severe skin burns and eye damage.
Skin Irrit. 2; Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Skin Sens. 1A; Skin Sensitisation, Category 1A	H317: May cause an allergic skin reaction.
Skin Sens. 1; Skin Sensitisation, Category 1	H317: May cause an allergic skin reaction.
Eye Dam. 1; Eye damage, category 1	H318: Causes serious eye damage.
Eye Irrit. 2; Eye Irritation, Category 2	H319: Causes serious eye irritation.
Acute Tox. 4; Acute toxicity, Category 4	H332: Harmful if inhaled.
STOT SE 3; Specific target organ toxicity — single exposure, Category 3	H335: May cause respiratory irritation.
	H336: May cause drowsiness or dizziness.
Repr. 2; Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
STOT RE 2; Specific target organ toxicity — repeated exposure,	H373: May cause damage to organs through prolonged or repeated
Category 2	exposure.
Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category	H400: Very toxic to aquatic life.
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Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic,	H410: Very toxic to aquatic life with long lasting effects.
Category 1	
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic,	H411: Toxic to aquatic life with long lasting effects.
Category 2	
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic,	H412: Harmful to aquatic life with long lasting effects.
Category 3	

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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