SAFETY DATA SHEET

Version: 24-AUG-2018 Revision date: 24-AUG-2018
ACCORDING TO GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) SEVENTH REVISED EDITION

S1125 Adhesive - Part A and S1264 Adhesive – Part A

SECTION 1: IDENTIFICATION

1.1 GHS Product Identifier

Product Name	S1125 Adhesive - Part A and S1264 Adhesive – Part A
Product code	Not applicable
Product type	Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

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

1.4 Emergency telephone number

Emergency Phone No.	+44 1793 528171	GMT (Monday to Friday 08:00 - 17:00)
Languages spoken	English	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 GHS Classification

Skin Corr. 1; H314
Skin Sens. 1; H317
Eye Dam.1; H318

2.2 GHS Classification

Product Name	S1125 Adhesive – Part A and S1264 Adhesive – Part A
Contains:	3,3'-oxybis(ethyleneoxy)bis(propylamine), Aliphatic Polymer Diamine
Hazard Pictogram(s)	
Signal Word(s)	Danger
Hazard Statement(s)	H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction.
Precautionary Statement(s)	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. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P310: Immediately call a POISON CENTER/doctor. P362+P364: Take off contaminated clothing and wash it before reuse.
Supplemental information	Not applicable.

2.3 Other Hazards that do not Result in Classification Combustible.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable

3.2 Mixtures Substances in preparations / mixtures.

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
ALIPHATIC POLYMER DIAMINE	50 - 80	68911-25-1	614-773-2	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318
3,3'-oxybis (ethyleneoxy) bis (propylamine)	≤ 10	4246-51-9	224-207-2	Skin Corr. 1B; H314 Skin Sens. 1; H317
Toluene	< 0.5	108-88-3	203-625-9	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE. 3; H336 STOT RE. 2; H373 Repr. 2; H361d Aq. Chronic 3; H412

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

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
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	Combustible. 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.

5.2 Special hazards arising from the substance or mixture
May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen.

5.3 Advice for fire-fighters
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit. Keep containers cool by spraying with water if exposed to fire. Evacuate if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing and wash all affected areas with plenty of water.
6.2	**Environmental precautions**	Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.
6.3	**Methods and material for containment and cleaning up**	Contain spillages. Cover spills with inert absorbent material. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete.
6.4	**Reference to other sections**	See Also Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Avoid all contact. Remove contaminated clothing and wash clothing before reuse.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep only in original packaging. Keep in a well ventilated place. Keep container closed.
	Storage temperature	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
	Storage life	Stable at ambient temperatures.
	Incompatible materials	Keep away from oxidising substances. Avoid contact with acids and alkalis.
7.3	**Specific end use(s)**	See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Toluene (Toluol)	108-88-3	100	375	150	560	-

Source: THE FACTORIES ACT(1948), THE SECOND SCHEDULE

8.1.2	**Biological limit value**	Not established.
8.2	**Exposure controls**	
8.2.1	**Appropriate engineering controls**	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces.
8.2.2	**Personal protection equipment**	Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid all contact. Avoid inhalation of vapours that may be evolved at elevated temperatures.
	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). Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Nitrile rubber (0.4 mm), Polychloroprene - CR (0.5 mm), Butyl rubber (0.7 mm). **Body protection** Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection 	In case of inadequate ventilation wear respiratory protection. Recommended: EN 14387 Type A-P2
Thermal hazards	Not applicable.

8.2.3 Environmental Exposure Controls — Avoid release to the environment.No special precautions are required for this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Grey Paste
Odour	Pungent / Irritating odour
Odour threshold	Not available
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	151°C [Closed cup]
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	<0.13 hPa
Vapour density	Not determined
Relative density	Not determined
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	Not determined
Viscosity (mPa. s)	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

Density	1280 kg/m³

SECTION 10: STABILITY AND REACTIVITY

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

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 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.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - LD50 > 2850 mg/kg bw/day (rat) OECD 401
Toluene	Not classified - LD50 5580 mg/kg bw/day (rat) EU Method B1
Acute toxicity - Dermal	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - LD50 > 2150 mg/kg bw/day (rat) OECD 402
Toluene	Not classified - LD50 > 2150 mg/kg bw/day (rabbit) study result 1969
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - No data
Toluene	Not classified – LC50 30 mg/L Air (Analytical method) OECD 403
Skin corrosion/irritation	Mixture: Skin Corr. 1; H314: Causes severe skin burns and eye damage.
ALIPHATIC POLYMER DIAMINE	Skin Irrit. 2; H315: Causes skin irritation. EU classification and labelling inventory
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Skin Corr. 1; H314 Corrosive (rabbit) study result 1984
Toluene	Skin Irrit. 2; H315 Irritant (rabbit) EU Method B4
Serious eye damage/irritation	Mixture: Eye Dam. 1; H318: Causes serious eye damage.
ALIPHATIC POLYMER DIAMINE	Eye Dam. 1; H318: Causes serious eye damage. EU classification and labelling inventory
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Skin Corr. 1; H314 / Eye Dam. 1; H318 Corrosive (rabbit) study result 1984
Toluene	Not classified - Conclusive but not sufficient for classification: Slightly irritant to eyes. OECD 405 (rabbit)
Respiratory or skin sensitization	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
ALIPHATIC POLYMER DIAMINE	Skin Sens. 1; H317: May cause an allergic skin reaction. EU classification and labelling inventory
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Skin Sens. 1; H317: May cause an allergic skin reaction.
Toluene	Not classified - Sensitisation (guinea pig) - Negative EU Method B6
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	In vitro: Negative OECD 471 In vivo: Not classified - No data
Toluene	In vitro: Negative EU Method B13/14 In vivo: Negative study result 1978
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - No data
Toluene	Not classified - No evidence of carcinogenic effects. (rat) OECD 453
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Reproductive toxicity: Not classified - No effects observed (rat) OECD 422 Developmental Toxicity: Not classified - No data
Toluene	Repr. 2; H361d: Suspected of damaging the unborn child. Reproductive toxicity: Birth defects - Loss of weight study result 1997 Developmental Toxicity: Not classified - No evidence of reproductive effects. Weight of evidence approach
STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - No data
Toluene	STOT SE. 3; H336 Harmonised Classification

STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
ALIPHATIC POLYMER DIAMINE	Oral: Not classified – NOAEL (rat) 100 - 600 mg/kg bw/day OECD 422 52-62Days Inhalation: Not classified - No data Dermal: Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Oral: Not classified - No effects observed (rat) OECD 422 Inhalation: Not classified – No data Dermal: Not classified - No data
Toluene	Oral: Not classified - No effects observed (rat) OECD 422 Inhalation: Not classified - LOAEC (rat) 600 ppm OECD 453 103 week(s) Dermal: Not classified - No data
Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
ALIPHATIC POLYMER DIAMINE	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - Not applicable
Toluene	Asp. Tox, 1; H304 Hydrocarbon - Viscosity 0.56 mPa · s (20°C)

11.2 Other information None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Based upon the available data, the classification criteria are not met. Estimated LC50 (Mixture): >100 mg/l.
	ALIPHATIC POLYMER DIAMINE	Not classified - No data
	3,3'-oxybis (ethyleneoxy) bis (propylamine)	Short term: LC50 > 100 mg/l (Fish) 1991 Long Term: NOEC > 1 mg/l (Fish) EU Method C2
	Toluene	Short term: LC50 > 5.5 mg/l (Fish) 1981 Long Term: Aquatic Chronic 3 Harmonised Classification
12.2	**Persistence and degradability**	The product is likely to persist in the environment.
	ALIPHATIC POLYMER DIAMINE	No data.
	3,3'-oxybis (ethyleneoxy) bis (propylamine)	Water: Poorly biodegradable. ECHA registration dossier
	Toluene	Water: Readily biodegradable. ECHA registration dossier
12.3	**Bioaccumulative potential**	The product has low potential for bioaccumulation.
	ALIPHATIC POLYMER DIAMINE	No data.
	3,3'-oxybis (ethyleneoxy) bis (propylamine)	BCF = 2.0 - The substance has low potential for bioaccumulation. ECHA registration dossier
	Toluene	BCF = 90 - The substance has low potential for bioaccumulation. ECHA registration dossier
12.4	**Mobility in soil**	The product is predicted to have low mobility in soil.
	ALIPHATIC POLYMER DIAMINE	No data.
	3,3'-oxybis (ethyleneoxy) bis (propylamine)	log Koc 1.5 (23 °C, pH 7) ECHA registration dossier
	Toluene	The product is predicted to have high mobility in soil. ECHA registration dossier
12.5	**Results of PBT and vPvB assessment**	No data for the mixture as a whole.
	ALIPHATIC POLYMER DIAMINE	No data.
	3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified as PBT or vPvB. ECHA registration dossier
	Toluene	Not classified as PBT or vPvB. ECHA registration dossier
12.6	**Other adverse effects**	Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer: No components of the mixture are listed Regulation (EC) No 517/2014: No components of the mixture are listed
	Toluene	This chemical is known to leach through soil into ground water under certain conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of this material and its container as hazardous waste. Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation. Recover or recycle if possible.

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SECTION 14: TRANSPORT INFORMATION

		Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
14.1	**UN number**	UN 1759	UN 1759	UN 1759
14.2	**UN proper shipping name**	CORROSIVE SOLID, N.O.S (3,3'-oxybis (ethyleneoxy) bis (propylamine))	CORROSIVE SOLID, N.O.S (3,3'-oxybis (ethyleneoxy) bis (propylamine))	CORROSIVE SOLID, N.O.S (3,3'-oxybis (ethyleneoxy) bis (propylamine))
14.3	**Transport hazard class(es)**	8	8	8
	Hazard Identification Number	80	Not applicable	Not applicable
	Classification code	C10	Not applicable	Not applicable
14.4	**Packing group**	II	II	II
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	**Special precautions for user**			
	Special Provisions	274	274	A3
	Limited Quantities	1kg	1kg	5kg (Y844)
	Excepted Quantities	E1	E1	Not applicable
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**	Not applicable		
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 National regulations

India	None known.
Authorisations and/or Restrictions On Use	None.
Volatile Organic Compound Content (%):	0.499%

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – No previous versions

Version: 24-AUG-2018 Date of preparation: 24-AUG-2018 Date Previous Issue: Not applicable

This Safety Data Sheet was prepared in accordance with GHS Revision 7 and EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

References:
Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for 3,3'-oxybis(ethyleneoxy)bis(propylamine) (CAS No. 4246-51-9), Toluene (CAS No. 108-88-3). EU Harmonised Classification(s) for Toluene (CAS No. 108-88-3). EU classification and labelling inventory ALIPHATIC POLYMER DIAMINE (CAS No. 68911-25-1).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Corr. 1; H314	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Dam.1; H318	Threshold 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
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:	**Hazard Statement(s)**
Flam. Liq. 2; Flammable Liquid, Category 2	H225: Highly flammable liquid and vapour.
Asp. Tox. 1; Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Skin Corr. 1A/B/C ; Skin corrosion/irritation, Category 1A/B/C	H314: Causes severe skin burns and eye damage.
Skin Irrit. 2; Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
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.
STOT SE 3; Specific target organ toxicity — single exposure, Category 3	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, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3	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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