



SAFETY DATA SHEET


Version: 24-AUG-2018 Revision date: 24-AUG-2018
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

S1125 Adhesive - Part A and S1264 Adhesive – Part A

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

1.1 Product identifier	
Product Name	S1125 Adhesive - Part A and S1264 Adhesive – Part A
Product code	Not applicable
Product type	Mixture
REACH Registration No.	Not applicable (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
Languages spoken	English
	GMT (Monday to Friday 08:00 - 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Skin Corr. 1; H314 Skin Sens. 1; H317 Eye Dam.1; H318
2.2 Label elements	
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	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.	REACH Registration No.	Hazard classification
ALIPHATIC POLYMER DIAMINE	50 - 80	68911-25-1	614-773-2	Not yet assigned in the supply chain	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	Not yet assigned in the supply chain	Skin Corr. 1B; H314 Skin Sens. 1; H317
Toluene*	< 0.5	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 Aq. Chronic 3; H412

Notes: *Substance with a community exposure limit 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

Inhalation

Skin Contact

Eye Contact

Ingestion

4.2 **Most important symptoms and effects, both acute and delayed**

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

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing immediately. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Check the vital functions. Keep cool.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Obtain immediate medical attention.

IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain immediate medical attention.

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Treat symptomatically. No antidotes known.

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

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SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
 Suitable Extinguishing media
 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, Oxides of nitrogen.
- 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**
- 6.4 Reference to other sections**
- 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 pick-up is complete.
- See Also Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
- 7.2 Conditions for safe storage, including any incompatibilities**
 Storage temperature
 Storage life
 Incompatible materials
- 7.3 Specific end use(s)**
- 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.
- 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**
8.1.1 Occupational Exposure Limits
- The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 5 mg/m³ (8hr TWA) total respirable dust.

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Kaolin	1332-58-7	-	2	-	-	WEL: Respirable Aerosol
Titanium dioxide	13463-67-7	-	10	-	-	WEL: Inhalable Aerosol
		-	4	-	-	WEL: Respirable Aerosol
Toluene	108-88-3	50	191	100	384	WEL
		50	192	100	384	IOELV




Source: WEL: Workplace Exposure Limit (UK HSE EH40). IOELV: Indicative Occupational Exposure Limit Value.



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8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not applicable ALIPHATIC POLYMER DIAMINE - Not yet assigned in the supply chain 3,3'-oxybis (ethyleneoxy) bis (propylamine) - Not yet assigned in the supply chain Toluene - Not yet assigned in the supply chain
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces.
8.2.2	Personal protection equipment	Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid all contact. Avoid inhalation of vapours that may be evolved at elevated temperatures.
	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).
		
	Respiratory protection	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: 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



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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/m ³

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

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
Toluene	In vivo: Not classified - No data
	In vitro: Negative EU Method B13/14
	In vivo: Negative study result 1978



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Carcinogenicity

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

Reproductive toxicity

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

STOT - single exposure

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

STOT - repeated exposure

ALIPHATIC POLYMER DIAMINE

3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

Aspiration hazard

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

11.2 Other information

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Not classified - No data
Not classified - No evidence of carcinogenic effects. (rat) OECD 453
Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Reproductive toxicity: Not classified - No effects observed (rat) OECD 422
Developmental Toxicity: Not classified - No data
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
Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Not classified - No data
STOT SE. 3; H336 Harmonised Classification
Mixture: Based upon the available data, the classification criteria are not met.
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
Oral: Not classified - No effects observed (rat) OECD 422
Inhalation: Not classified – No data
Dermal: Not classified - No data
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
Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Not classified - Not applicable
Asp. Tox, 1; H304 Hydrocarbon - Viscosity 0.56 mPa · s (20°C)

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

Based upon the available data, the classification criteria are not met.
Estimated LC50 (Mixture): >100 mg/l.
Not classified - No data
Short term: LC50 > 100 mg/l (Fish) 1991
Long Term: NOEC > 1 mg/l (Fish) EU Method C2
Short term: LC50 > 5.5 mg/l (Fish) 1981
Long Term: Aquatic Chronic 3 Harmonised Classification

12.2 Persistence and degradability

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

The product is likely to persist in the environment.
No data.
Water: Poorly biodegradable. ECHA registration dossier
Water: Readily biodegradable. ECHA registration dossier

12.3 Bioaccumulative potential

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

The product has low potential for bioaccumulation.
No data.
BCF = 2.0 - The substance has low potential for bioaccumulation. ECHA registration dossier
BCF = 90 - The substance has low potential for bioaccumulation. ECHA registration dossier

12.4 Mobility in soil

ALIPHATIC POLYMER DIAMINE
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

The product is predicted to have low mobility in soil.
No data.
log Koc 1.5 (23 °C, pH 7) ECHA registration dossier
The product is predicted to have high mobility in soil. ECHA registration dossier



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12.5 Results of PBT and vPvB assessment ALIPHATIC POLYMER DIAMINE 3,3'-oxybis (ethyleneoxy) bis (propylamine) Toluene	No data for the mixture as a whole. No data. Not classified as PBT or vPvB. ECHA registration dossier Not classified as PBT or vPvB. ECHA registration dossier
12.6 Other adverse effects Toluene	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 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)	Dispose of wastes in an approved waste disposal facility. Recover or recycle if possible. 08 04 09 20 01 27 Packaging waste: 15 01 10
13.2 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)
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) Hazard Identification Number Classification code	8 80 C10	8 Not applicable Not applicable	8 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 Limited Quantities Excepted Quantities	274 1kg E1	274 1kg E1	A3 5kg (Y844) 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		



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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 None.
Volatile Organic Compound Content (%): 0.499%
- 15.1.2 National regulations**
Wassergefährdungsklasse (Germany) Water hazard class: 1 (Self classification)
- 15.2 Chemical Safety Assessment**
ALIPHATIC POLYMER DIAMINE - Not yet assigned in the supply chain
3,3'-oxybis (ethyleneoxy) bis (propylamine) - Not yet assigned in the supply chain
Toluene - Not yet assigned in the supply chain

SECTION 16: OTHER INFORMATION

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

Version: 24-AUG-2018

Date of preparation: 24-AUG-2018

Date Previous Issue: Not applicable

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 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

LEGEND

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
BCF	Bioconcentration factor (BCF)
CAS	CAS: Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	EC: European Community
EU	European Union
IATA	IATA: International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long Term Exposure Limit
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
STEL	Short Term Exposure Limit
UN	United Nations
vPvB	vPvT: very Persistent and very Toxic



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Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid, Category 2
Asp. Tox. 1; Aspiration hazard, Category 1
Skin Corr. 1A/B/C ; Skin corrosion/irritation, Category 1A/B/C
Skin Irrit. 2; Skin corrosion/irritation, Category 2
Skin Sens. 1; Skin Sensitisation, Category 1
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 Chronic 3; Hazardous to the aquatic environment, Chronic ,
Category 3

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
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.
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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Version: 25-MAY-2018 Revision date: 25-MAY-2018
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S1125 Adhesive- Part B and S1264 Adhesive – Part B

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

1.1 Product identifier	
Product Name	S1125 Adhesive- Part B and S1264 Adhesive – Part B
Product code	Not applicable
Product type	Mixture
REACH Registration No.	Not applicable (Mixture)
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified Use(s)	Adhesive. Epoxy Resin.
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
Languages spoken	English
	GMT (Monday to Friday 08:00 - 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	S1125 Adhesive – Part B and S1264 Adhesive – Part B
Contains:	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Hazard Pictogram(s)	
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P273: Avoid release to the environment.
Supplemental information	Not applicable.



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2.3 Other hazards

Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.

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
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)	\geq 25	25068-38-6	500-033-5	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411
Carbon Black	< 5	1333-86-4	215-609-9	Not yet assigned in the supply chain	Not classified [^]

Notes: For full text of H phrases see section 16. [^]See Section: 11

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing immediately. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Check the vital functions. Keep cool.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

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.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No antidotes known.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or 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.

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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.
Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. |
| | Storage temperature | Stable at ambient temperatures. |
| | 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 | The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m ³ (8hr TWA) total inhalable dust; 5 mg/m ³ (8hr TWA) total respirable dust. |

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Kaolin	1332-58-7	-	2	-	-	WEL: Respirable Aerosol
Titanium dioxide	13463-67-7	-	10	-	-	WEL: Inhalable Aerosol
		-	4	-	-	WEL: Respirable Aerosol
Silane, dichlorodimethyl-, reaction products with silica [Silica, amorphous]	-	-	6	-	-	WEL: Inhalable Aerosol
		-	2.4	-	-	WEL: Respirable Aerosol
Carbon Black	1333-86-4	-	3.5	-	7	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40). IOELV: Indicative Occupational Exposure Limit Value.

- | | | |
|--------------|---|---|
| 8.1.2 | Biological limit value | Not established. |
| 8.1.3 | PNECs and DNELs | Not applicable
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane - Not yet assigned in the supply chain
Carbon Black - Not yet assigned in the supply chain |
| 8.2 | Exposure controls | |
| 8.2.1 | Appropriate engineering controls | Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces. |



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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.

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

Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.

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	Black Paste
Odour	Mild odour / Characteristic
Odour threshold	Not available
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	> 150 °C
Flash point	>240 °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	Not determined
Relative density	1.31
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Dynamic viscosity: 15 - 50 Pa.s (50 °C)
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

None known



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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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Oral

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Acute toxicity - Dermal

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Acute toxicity - Inhalation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Skin corrosion/irritation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Serious eye damage/irritation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Respiratory or skin sensitization

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Germ cell mutagenicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Carcinogenicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) $>2,000$ mg/kg. Not classified - LD50 $> 2\ 000$ mg/kg bw/day (rat) OECD 420

Not classified - LD50 $> 10\ 000$ mg/kg bw/day (rat) OECD 401

Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) $>2,000$ mg/kg. Not classified - LD50 $> 2\ 000$ mg/kg bw/day (rat) OECD 402

Not classified - No data

Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l

Not classified - No data

Not classified - Weight of evidence approach

Mixture: Skin Irrit. 2; H315: Causes skin irritation.

Skin Irrit. 2; H315: Causes skin irritation. EU Harmonised Classification SCL H315 $\geq 5\%$

Not classified – Non-irritant (rabbit) OECD 404

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

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

Not classified – Non-irritant (rabbit) OECD 405

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 – Skin: Negative Guinea pig OECD406

Not classified –Respiratory sensitization: Negative Weight of evidence approach

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

Not classified - In vitro: Negative (Bacteria) OECD 472 In vivo: Negative (mouse) Chromosome aberration assay

Not classified - In vitro: Negative (Bacteria) OECD 471 In vivo: Positive (mouse) OECD 476

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

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

Oral: Not classified – NOEL (rat) 15-100 mg/kg OECD 453

Dermal: Not classified – NOEL (mouse) 100 mg/kg OECD 453

Not classified - Weight of evidence approach Not classified according to current CLP Regulations.

Carbon black is listed by IARC as a Group 2B substance (possibly carcinogenic), but IARC monographs Vol. 65 and 93 state that there is inadequate evidence to classify carbon black as carcinogenic to humans. Additionally, IARC monograph Vol. 93 states that no significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint. Carbon black in this mixture is in a bound form.



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Reproductive toxicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

STOT - single exposure

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

STOT - repeated exposure

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Aspiration hazard

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

11.2 Other information

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

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

Toxicity for reproduction: Not classified – NOAEL (rat) 50-540 mg/kg/d OECD 416 238 Days

Developmental Toxicity: Not classified – NOAEL (rat) > 540 mg/kg/d OECD 414 6-15 Days

Toxicity for reproduction: Not classified - Weight of evidence approach

Developmental Toxicity: Not classified - Weight of evidence approach

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

Not classified - No data

Not classified - No specific effects and/or symptoms have been reported or known. Inhalation: Weight of evidence approach

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

Oral: Not classified – NOAEL (rat) 50 mg/kg bw/day OECD 408 14week(s)

Inhalation: Not classified - No data

Dermal: Not classified - NOAEL (mouse) 100 mg/kg bw/day OECD 408 13week(s)

Oral: Not classified - No specific effects and/or symptoms have been reported or known (rat) study result 1985

Inhalation: Not classified - No effects observed NOAEL 1 mg/m³ (rat) NOAEL 1 mg/m³ (mouse) NOAEL 1 mg/m³ (Hamster)

Dermal: Not classified - No specific effects and/or symptoms have been reported or known NOEL 20% (mouse) study result 1958

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

Not classified - Not applicable

Not classified - Not applicable

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Mixture: Aquatic Chronic 2; H412: Harmful to aquatic life with long lasting effects.

Aquatic Chronic 2; H412: Harmful to aquatic life with long lasting effects. EU Harmonised Classification

12.2 Persistence and degradability

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

The product is likely to persist in the environment.

Not biodegradable (Hydrolysis rate – 82%, 28 days) OECD 301 F

Carbon Black

Not biodegradable - Inorganic

12.3 Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

The product has low potential for bioaccumulation.

BCF 3-31 QSAR

Log Kow \geq 2.918 25 °C EU Method A8

Carbon Black

The substance has low potential for bioaccumulation.

12.4 Mobility in soil

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

The product is predicted to have low mobility in soil.

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

Carbon Black

The substance is predicted to have low mobility in soil. Insoluble in water.

12.5 Results of PBT and vPvB assessment

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

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.

Carbon Black

Not classified as PBT or vPvB.

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 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 20 01 27 Packaging waste: 15 01 10
13.2 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)
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: Bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: Bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: Bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
14.3 Transport hazard class(es)	9	9	9
Classification code:	90	Not applicable	Not applicable
Hazard Identification Number	M6	Not applicable	Not applicable
14.4 Packing group	III	III	III
14.5 Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant.	Environmentally hazardous substance
14.6 Special precautions for user			
Special Provisions	274, 335, 375, 601	274, 335, 375, 601	A97, A158, A197
Limited Quantities	5L	5L	30kg G
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 EU regulations	
Authorisations and/or Restrictions On Use	None.
Volatile Organic Compound Content (%):	0%
15.1.2 National regulations	
Wassergefährdungsklasse (Germany)	Water hazard class: 2 (Self classification)
15.2 Chemical Safety Assessment	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): Not yet assigned in the supply chain Carbon Black: Not yet assigned in the supply chain



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SECTION 16: OTHER INFORMATION

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

Version: 25-MAY-2018

Date of preparation: 25-MAY-2018

Date Previous Issue: 14-NOV-2014

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 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS No. 25068-38-6), Carbon Black (CAS No. 1333-86-4). EU Harmonised Classification(s) for bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS No. 25068-38-6).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

LEGEND

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
BCF	Bioconcentration factor (BCF)
CAS	CAS: Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	EC: European Community
EU	European Union
IATA	IATA: International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long Term Exposure Limit
NOEC	No Observed Effect Concentration
NOAEL	no observed adverse effect level
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
STEL	Short Term Exposure Limit
UN	United Nations
vPvB	vPvT: very Persistent and very Toxic

Hazard classification / Classification code:

Skin Irrit. 2; Skin corrosion/irritation, Category 2
Skin Sens. 1; Skin Sensitisation, Category 1
Eye Irrit. 2; Eye Irritation, Category 2
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H411: Toxic 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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