



SAFETY DATA SHEET

Version: 25-MAY-2018 Revision date: 25-MAY-2018
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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 ≤ 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	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
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Not classified - LD50 > 10 000 mg/kg bw/day (rat) OECD 401
	Acute toxicity - Dermal	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
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Not classified - No data
	Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l Not classified - No data
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Not classified - Weight of evidence approach
	Skin corrosion/irritation	Mixture: Skin Irrit. 2; H315: Causes skin irritation.
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Skin Irrit. 2; H315: Causes skin irritation. EU Harmonised Classification SCL H315 ≥ 5%
	Serious eye damage/irritation	Not classified – Non-irritant (rabbit) OECD 404
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Mixture: Eye Irrit. 2; H319: Causes serious eye irritation.
	Respiratory or skin sensitization	Eye Irrit. 2; H319: Causes serious eye irritation. EU Harmonised Classification SCL H319 ≥ 5%
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Not classified – Non-irritant (rabbit) OECD 405
	Germ cell mutagenicity	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	Skin Sens. 1; H317: May cause an allergic skin reaction. EU Harmonised Classification
	Carcinogenicity	Not classified – Skin: Negative Guinea pig OECD406
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Carbon Black	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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