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1.1	Product identifier	
1.1	Product identifier	RTC-2 Epoxy Part B
	Chemical Name	Mixture
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	None assigned.
1.2	Relevant identified uses of the substance or mixture	None designed.
	and uses advised against	
	Identified Use(s)	Metal surface treatment products, including galvanic and electroplating products
	Uses Advised Against	None known.
1.3	Details of the supplier of the safety data sheet	
	Company Identification	VISHAY MEASUREMENTS GROUP UK LTD
		Stroudley Road
		Basingstoke
		Hampshire
		United Kingdom
		RG24 8FW
	Telephone	+44 (0) 1256 462131
	Fax	+44 (0) 1256 471441
	E-Mail (competent person)	mm.uk@vpgsensors.com
1.4	Emergency telephone number	(00-1) 703-527-3887
		CHEMTREC
2.	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
		Aquatic Chronic 3; H412
2.2	Label elements	Regulation (EC) No. 1272/2008 (CLP)
	Product Name	RTC-2 Epoxy Part B
	Hazard Pictogram(s)	\wedge
	Signal Word(s)	Danger
	Contains:	Tris-2,4,6-(Dimethylaminomethyl) and Bis(dimethylaminomethyl)phenol
	Hazard Statemont(c)	H214: Causes severe skin hums and eve damage
	Hazard Statement(s)	H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction.
		H412: Harmful to aquatic life with long lasting effects.
	Precautionary Statement(s)	P260: Do not breathe vapour.
		P280: Wear protective gloves/protective clothing/eye protection/face protection.
		P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
		DOOD, DOOT, DOED, JE ON OKIN (and also). Takes off instantial states all and takes in
		P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated
		clothing. Rinse skin with water [or shower].

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P310: Immediately call a POISON CENTER/doctor.

Supplemental information

None. None.

2.3 Other hazards

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable

3.2 Mixtures

Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Liquid Diethoxymethane Polysulfide Polymer	< 100	68611-50-7	614-671-8	Not yet assigned in the supply chain	Aquatic Chronic 3; H412
Tris-2,4,6-(Dimethylaminomethyl)	< 18	90-72-2	202-013-9	Not yet assigned in the supply chain	Acute Tox. 4; H302 Skin Corr. 1C; H314 Skin Sens. 1; H317 Eye Dam. 1; H318
Bis(dimethylaminomethyl)phenol	< 3	71074-89-0	275-162-0	Not yet assigned in the supply chain	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335

H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H335: May cause respiratory irritation. H412: Harmful to aquatic life with long lasting effects.

4. 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. Do not breathe vapour. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation. Contaminated clothing should be laundered before reuse.
	Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, apply artificial respiration. Do not use mouth-to-mouth resuscitation. If breathing is laboured, oxygen should be administered by qualified personnel. Call a POISON CENTER/doctor if you feel unwell.
	Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. If irritation (redness, rash, blistering) develops, get 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. Immediately call a POISON CENTER/doctor. Continue irrigation until medical attention can be obtained. Get medical attention if eye irritation develops or persists.
	Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent

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		aspiration into the lungs. If aspiration is suspected 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	Treat symptomatically.
	special treatment needed	IF ON SKIN: Cover the affected area with a sterile dressing or clean sheeting
		and transport for medical care. Do not apply greases or ointments. IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist.
5.	SECTION 5: FIREFIGHTING MEASURES	
5.1	Extinguishing media	
	Suitable Extinguishing media	As appropriate for surrounding fire. Suitable extinguishing media: alcohol
		resistant foam, Limestone powder, dry chemical, sand or carbon dioxide.
	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 decompose in a fire giving off toxic fumes. Carbon monoxide, carbon
5.3	Advice for fire-fighters	dioxide, Nitrogen oxides and Ammonia. Fire fighters should wear complete protective clothing including self-contained
5.5	Auvice for me-nymers	breathing apparatus. Do not breathe fumes. Keep containers cool by spraying
		with water if exposed to fire. Avoid run off to waterways and sewers.
6.	SECTION 6: ACCIDENTAL RELEASE MEASU	RES
6.1	Personal precautions, protective equipment and	Ensure adaquate ventilation. Stan look if acts to do as illes personal protectiv
0.1	emergency procedures	Ensure adequate ventilation. Stop leak if safe to do so. Use personal protectiv equipment as required. See Section: 8. Do not breathe vapour. Contaminate
		work clothing should not be allowed out of the workplace. Wash contaminate
		clothing before reuse.
6.2	Environmental precautions	Avoid release to the environment.
6.2 6.3	Environmental precautions Methods and material for containment and cleaning	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t
	-	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material pick
	Methods and material for containment and cleaning	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material pick up is complete. Dispose of this material and its container as hazardous waste
6.3	Methods and material for containment and cleaning up	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material picl up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC).
	Methods and material for containment and cleaning	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material pick up is complete. Dispose of this material and its container as hazardous waste
6.3 6.4	Methods and material for containment and cleaning up	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material picl up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC).
6.3 6.4	Methods and material for containment and cleaning up Reference to other sections	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material pict up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13
6.3 6.4 7.	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. Use personal
6.3 6.4 7.	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke
6.3 6.4 7. 7.1	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE Precautions for safe handling	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pict up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
6.3 6.4 7.	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE Precautions for safe handling Conditions for safe storage, including any	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Keep container tightly closed, in a cool, well ventilated place.
6.3 6.4 7. 7.1	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE Precautions for safe handling Conditions for safe storage, including any incompatibilities	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pict up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breath fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
6.3 6.4 7. 7.1	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE Precautions for safe handling Conditions for safe storage, including any incompatibilities Storage temperature	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pict up is complete. Dispose of this material and its container as hazardous waster (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breath- fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Keep container tightly closed, in a cool, well ventilated place. Recommended: Store locked up.
6.3 6.4 7. 7.1	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE Precautions for safe handling Conditions for safe storage, including any incompatibilities	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pic up is complete. Dispose of this material and its container as hazardous waster (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breath fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Keep container tightly closed, in a cool, well ventilated place. Recommended: Store locked up. Ambient.
6.3 6.4 7. 7.1	Methods and material for containment and cleaning up Reference to other sections SECTION 7: HANDLING AND STORAGE Precautions for safe handling Conditions for safe storage, including any incompatibilities Storage temperature Storage life	Avoid release to the environment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer t a container for disposal. Ventilate the area and wash spill site after material pict up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC). See Section: 8, 13 Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Keep container tightly closed, in a cool, well ventilated place. Recommended: Store locked up. Ambient. Stable under normal conditions.

8.1 **Control parameters**

- 8.1.1 **Occupational Exposure Limits**
- Biological limit value 8.1.2
- 8.1.3 **PNECs and DNELs**

8.2 **Exposure controls**

Appropriate engineering controls 8.2.1

Ensure adequate ventilation or use appropriate containment. Guarantee that the eye flushing systems and safety showers are located close to the working place.

Not established.

Not established.

Not established.

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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Straw Yellow Liquid
	Odour	Irritating odour
	Odour threshold	Not available.
	рН	Not established.
	Melting point/freezing point	Not established.
	Initial boiling point and boiling range	Not applicable.
	Flash point	93.3°C
	Evaporation rate	Not known.
	Flammability (solid, gas)	Not applicable - Liquid.
	Upper/lower flammability or explosive limits	Not applicable.
	Vapour pressure	Not applicable.
	Vapour density	Not applicable.
	Relative density	0.97 (H2O=1)
	Solubility(ies)	< 20% (Water)
	Partition coefficient: n-octanol/water	Not available.
	Auto-ignition temperature	Not available.
	Decomposition Temperature	Not available.
	Viscosity	Not available.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	Other information	None.

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10.	SECTION 10: STABILITY AND REACTI	VITY
10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	May react vigorously with oxidizing agents creating explosion hazard.
10.4	Conditions to avoid	Avoid contact with heat and ignition sources and oxidizers.
10.5	Incompatible materials	Keep away from: Oxidizing agents, Sodium hypochlorite and calcium hyprochlorite, Organic acids and Mineral acids.
10.6	Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon dioxide, Nitrogen oxides and Ammonia.
11.	SECTION 11: TOXICOLOGICAL INFOR	MATION
11.1	Information on toxicological effects (Substan	ces in preparations / mixtures)
	Acute toxicity	
	Ingestion	Based upon the available data, the classification criteria are not met.
		Acute Toxicity Estimate Mixture Calculation: LC50 > 2000 mg/kg bw/day.
	Inhalation	Based upon the available data, the classification criteria are not met.
		Acute Toxicity Estimate Mixture Calculation: LC50 > 20.0 mg/l.
	Skin Contact	Based upon the available data, the classification criteria are not met.
		Acute Toxicity Estimate Mixture Calculation: LC50 > 2000 mg/kg bw/day.
	Skin corrosion/irritation	Skin Corr 1; H314: Causes severe skin burns and eye damage.
	Tris-2,4,6-(Dimethylaminomethyl)	Skin Corr 1C; H314: Causes severe skin burns and eye damage.
		Corrosive to rabbit skin (OECD 404)
	Bis(dimethylaminomethyl)phenol	Skin Corr 1B; H314: Causes severe skin burns and eye damage.
		EU classification and labelling inventory, ≥ 400 Notifiers
	Serious eye damage/irritation	Eye Dam. 1; H318: Causes serious eye damage.
	Tris-2,4,6-(Dimethylaminomethyl)	Eye Dam. 1; H318: Causes serious eye damage.
		Corrosive to eyes. (rabbit) (Unnamed publication, 1975)
	Bis(dimethylaminomethyl)phenol	Eye Dam. 1; H318: Causes serious eye damage.
		EU classification and labelling inventory, ≥ 300 Notifiers
	Respiratory or skin sensitization	Skin Sens. 1; H317: May cause an allergic skin reaction.

Respiratory or skin sensitization Tris-2,4,6-(Dimethylaminomethyl)

Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard Other information

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

11.2

Liquid Diethoxymethane Polysulfide Polymer

Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol

12.2 Persistence and degradability

Liquid Diethoxymethane Polysulfide Polymer Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol

12.3 Bioaccumulative potential

Liquid Diethoxymethane Polysulfide Polymer

 / 	Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. Estimated Mixture LC50: >10 - \leq 100 mg/l (Fish) Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. EU classification and labelling inventory, \geq 120 Notifiers
I	Not classified Not classified
ł	No data for the mixture as a whole. Part of the components are poorly biodegradable. No data
	Not readily biodegradable (OECD 301D) No data
F	No data for the mixture as a whole. The product is predicted to have low potential for bioaccumulation No data

Skin Sens. 1; H317: May cause an allergic skin reaction. Human Positive data from patch testing. (Kanerva et al, 196)

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

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

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

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

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

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

None.

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	Tris-2,4,6-(Dimethylaminomethyl)	No data
	Bis(dimethylaminomethyl)phenol	No data
12.4	Mobility in soil	No data for the mixture as a whole. The product is predicted to have moderate mobility in soil.
	Liquid Diethoxymethane Polysulfide Polymer	No data
	Tris-2,4,6-(Dimethylaminomethyl)	The substance is predicted to have moderate mobility in soil.
		Koc: 20.98 L/kg, (Q)SAR (Unnamed publication, 2010).
	Bis(dimethylaminomethyl)phenol	No data
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	Other adverse effects	None known.
13.	SECTION 13: DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods	Dispose of this material and its container as hazardous waste (2008/98/EEC).

		Send after pre-treatment to a appropriate hazardous waste incinerator facility
		according to legislation.
13.2	Additional Information	Dispose of contents in accordance with local, state or national legislation.
		Containers of this material may be hazardous when empty since they retain
		product residue.

SECTION 14: TRANSPORT INFORMATION 14.

14.1 14.2 14.3 14.4 14.5 14.6	UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	ADR/RID UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S (Tris-2,4,6- (Dimethylaminomethyl)) 8 III Not classified as a Marine See Section: 2	IMDG UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S (Tris-2,4,6- (Dimethylaminomethyl)) 8 III Pollutant / Environmentally	IATA UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S (Tris-2,4,6- (Dimethylaminomethyl)) 8 III	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.			
14.8	Additional Information Limited Quantities Excepted quantities Tunnel restriction code	5 L E1 3 (E)			

SECTION 15: REGULATORY INFORMATION 15.

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	Not restricted	
	Substance(s) of Very High Concern (SVHCs)	None	
15.1.2	National regulations		
	Wassergefährdungsklasse (Germany)	Water hazard class: 2 (Self classification)	
15.2	Chemical Safety Assessment	Not available.	

SECTION 16: OTHER INFORMATION 16.

The following sections contain revisions or new statements:

Updated substance / mixture classification. Updated version and date. Please review SDS with care. See below -



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Sections indicated with the following have been revised:

References: Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Tris-2,4,6-(Dimethylaminomethyl) (CAS# 90-72-2). Existing ECHA registration(s) for Tris-2,4,6-(Dimethylaminomethyl) (CAS# 90-72-2), and the Classification and Labelling Inventory for Liquid Diethoxymethane Polysulfide Polymer (CAS# 68611-50-7) and Bis(dimethylaminomethyl)phenol (CAS# 71074-89-0).

Literature References:

1. Kanerva L, Estlander T, Jolanki R. 1996. Occupational allergic contact dermatitis caused by 2,4,6-tris-(dimethylaminomethyl)phenol, and review of sensitizing epoxy resin hardeners. Int J Dermatol. Dec;35(12):852-6.

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
Aquatic Chronic 3; H412	Summation Calculation

LEGEND

LEGEND	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	European Community
ECHA	European Chemicals Agency
EU	European Union
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
(Q)SAR	Quantitative structure-activity relationship
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

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.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.



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