

# SAFETY DATA SHEET

Revision: 1.0 Date: 10 May 2017

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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

<b>1.1</b>	<b>Product identifier</b>	
	Product Name	RTC-2 Epoxy Part B
	Chemical Name	Mixture
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	None assigned.
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
	Identified Use(s)	PC14 Metal surface treatment products, including galvanic and electroplating products.
	Uses Advised Against	None known.
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>	
	Company Identification	VISHAY MEASUREMENTS GROUP UK LTD Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom
	Telephone	+44 (0) 1256 462131
	Fax	+44 (0) 1256 471441
	E-Mail (competent person)	mm.uk@vishaypg.com
<b>1.4</b>	<b>Emergency telephone number</b>	(00-1) 703-527-3887 CHEMTREC

## 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1</b>	<b>Classification of the substance or mixture</b>	
<b>2.1.1</b>	<b>Regulation (EC) No. 1272/2008 (CLP)</b>	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 2; H411
<b>2.2</b>	<b>Label elements</b>	Regulation (EC) No. 1272/2008 (CLP)
	Product Name	RTC-2 Epoxy Part B
	Hazard Pictogram(s)	 
	Signal Word(s)	Warning
	Contains:	Liquid Diethoxymethane Polysulfide Polymer, Tris-2,4,6-(Dimethylaminomethyl) and Bis(dimethylaminomethyl)phenol
	Hazard Statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects.
	Precautionary Statement(s)	P261: Avoid breathing vapours.

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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.

## Additional Information

None.

## 2.3 Other hazards

None.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 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	-	None assigned.	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 2; H411
Tris-2,4,6- (Dimethylaminomethyl)	< 18	90-72-2	202-013-9	None assigned.	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412
Bis(dimethylaminomethyl)phenol	< 3	71074-89-0	275-162-0	None assigned.	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 STOT SE 3; H335

H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. 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. H412: Harmful to aquatic life with long lasting effects.

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, apply artificial respiration. 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: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. If the victim is conscious and alert, give 2-4 glasses of water or milk. If symptoms develop, obtain medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.

### 4.2 Most important symptoms and effects, both acute and

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye

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- |            |   |  |
|------------|---|--|
| <b>4.3</b> | <b>Indication of any immediate medical attention and special treatment needed</b> | delayed<br>irritation. May cause respiratory irritation.<br>Treat symptomatically.<br>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. |
|------------|---|--|

## 5. SECTION 5: FIREFIGHTING MEASURES

- |            |  |   |
|------------|--|---|
| <b>5.1</b> | <b>Extinguishing media</b><br>Suitable Extinguishing media<br><br>Unsuitable extinguishing media | As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray.<br>Do not use water jet. Direct water jet may spread the fire.   |
| <b>5.2</b> | <b>Special hazards arising from the substance or mixture</b>                                     | May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon dioxide, Nitrogen oxides and Ammonia.   |
| <b>5.3</b> | <b>Advice for fire-fighters</b>  | Fire fighters should wear complete protective clothing including self-contained 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 MEASURES

- |            |  |   |
|------------|--|---|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. See Section: 8. Avoid breathing vapours.  |
| <b>6.2</b> | <b>Environmental precautions</b>   | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.   |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | 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). |
| <b>6.4</b> | <b>Reference to other sections</b>   | See Section: 8, 13  |

## 7. SECTION 7: HANDLING AND STORAGE

- |            |  |   |
|------------|--|---|
| <b>7.1</b> | <b>Precautions for safe handling</b>   | 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. |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b><br>Storage temperature<br>Storage life<br>Incompatible materials | Keep container tightly closed, in a cool, well ventilated place.<br><br>Ambient.<br>Stable under normal conditions.<br>Keep away from: Oxidizing agents, Sodium hypochlorite and calcium hypochlorite, Organic acids and Mineral acids.   |
| <b>7.3</b> | <b>Specific end use(s)</b>   | PC14 Metal surface treatment products, including galvanic and electroplating products.  |

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |              |  |   |
|--------------|--|---|
| <b>8.1</b>   | <b>Control parameters</b>  |   |
| <b>8.1.1</b> | <b>Occupational Exposure Limits</b>  | Not established.  |
| <b>8.1.2</b> | <b>Biological limit value</b>  | Not established.  |
| <b>8.1.3</b> | <b>PNECs and DNELs</b>   | Not established.  |
| <b>8.2</b>   | <b>Exposure controls</b>   |   |
| <b>8.2.1</b> | <b>Appropriate engineering controls</b>  | Ensure adequate ventilation or use appropriate containment. Guarantee that the eye flushing systems and safety showers are located close to the working place.  |
| <b>8.2.2</b> | <b>Individual protection measures, such as personal protective equipment (PPE)</b> | General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place. |

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Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled. Recommended: Neoprene or Nitrile rubber.

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. Open system(s): Wear suitable respiratory protective equipment.

Thermal hazards

Not applicable.

## 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 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.
pH	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 (H <sub>2</sub> O=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.

## 10. 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	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 hydrochlorite, 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.

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## 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects (Substances in preparations / mixtures)</b>	
	<b>Acute toxicity</b>	
	Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
	Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l.
	Skin Contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
	<b>Skin corrosion/irritation</b>	Skin Irrit. 2: Causes skin irritation.
	<b>Serious eye damage/irritation</b>	Eye Irrit. 2: Causes serious eye irritation.
	<b>Respiratory or skin sensitization</b>	Skin Sens. 1: May cause an allergic skin reaction.
	<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met.
	<b>Carcinogenicity</b>	Based upon the available data, the classification criteria are not met.
	<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
	<b>STOT - single exposure</b>	STOT SE 3: May cause respiratory irritation.
	<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
	<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
<b>11.2</b>	<b>Other information</b>	None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b>	Aquatic Chronic 2: Toxic to aquatic life with long lasting effects. Estimated Mixture LC50 > 1 ≤ 10 mg/l (Fish)
<b>12.2</b>	<b>Persistence and degradability</b>	Part of the components are poorly biodegradable.
<b>12.3</b>	<b>Bioaccumulative potential</b>	The product has no potential for bioaccumulation.
<b>12.4</b>	<b>Mobility in soil</b>	The product has moderate mobility in soil.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6</b>	<b>Other adverse effects</b>	None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b>	<b>Waste treatment methods</b>	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.
<b>13.2</b>	<b>Additional Information</b>	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.

## 14. SECTION 14: TRANSPORT INFORMATION

		<b>ADR/RID / IMDG / IATA</b>
<b>14.1</b>	<b>UN number</b>	UN 3082
<b>14.2</b>	<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID POLYSULPHIDE POLYMER)
<b>14.3</b>	<b>Transport hazard class(es)</b>	9
<b>14.4</b>	<b>Packing group</b>	III
<b>14.5</b>	<b>Environmental hazards</b>	Classified as a Marine Pollutant/ Environmentally hazardous substance
<b>14.6</b>	<b>Special precautions for user</b>	See Section: 2
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>14.8</b>	<b>Additional Information</b>	None.

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## 15. SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.1.1 EU regulations**
- |   |      |
|---|------|
| Substance(s) of Very High Concern (SVHCs) | None |
| Authorisations and/or Restrictions On Use | None |
- 15.1.2 National regulations**
- |                                   |                       |
|-----------------------------------|-----------------------|
| Wassergefährdungsklasse (Germany) | Water hazard class: 2 |
|-----------------------------------|-----------------------|
- 15.2 Chemical Safety Assessment**
- |  |                |
|--|----------------|
|  | Not available. |
|--|----------------|

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Revision: 1.0 Not applicable.

**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).

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; H19	Threshold Calculation
STOT SE 3; H335	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
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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