

# SAFETY DATA SHEET

Version: 4.0  
Date of Issue: 13-November-2020  
Date of First Issue: 10-May-2017


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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

## SECTION 1: IDENTIFICATION

<b>Product identifier used on the label</b>	RTC-2 Epoxy Part B	
<b>Other means of identification</b>		
Chemical Name	Mixture	
CAS No.	Mixture	
EINECS No.	Mixture	
<b>Recommended use of the chemical and restrictions on use</b>		
Recommended use	Metal surface treatment products, including galvanic and electroplating products.	
Restrictions on use	None known.	
<b>Details of the supplier of the safety data sheet</b>		
Supplier	VISHAY MEASUREMENTS GROUP, INC.	
Address of Supplier	Post Office Box 27777 Raleigh, NC 27611 USA	
Telephone	+1 919-365-3800	
Fax	+1 919-365-3945	
E-Mail (competent person)	<a href="mailto:mm.us@vishaypg.com">mm.us@vishaypg.com</a>	
<b>Emergency telephone number</b>	1-800-424-9300	CHEMTREC (24 hours)

## SECTION 2: HAZARD(S) IDENTIFICATION

<b>Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200</b>		
Physical hazards	Not classified	
Health hazards	Skin Corrosion/Irritation, Category 1 Skin sensitization, Category 1 Serious eye damage/irritation, Category 1	
Environmental hazards	Hazardous to the aquatic environment, Chronic, Category 3	
Hazard Symbol		
Signal Word(s)	Danger	
Hazard Statement(s)	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.	
Precautionary Statement(s)		
Prevention	Do not breathe vapour. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.	
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention.	

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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.
Storage	Take off contaminated clothing and wash it before reuse.
Disposal	Store locked up.
	Dispose of contents in accordance with local, state or national legislation.
<b>Other hazards</b>	None Known
<b>Percent of the mixture consists of ingredient(s) of unknown acute toxicity:</b>	0%

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substances** Not applicable

**Mixtures** Substances in preparations / mixtures

Chemical identity of the substance	%W/W	Synonyms	CAS No.	Hazard classification
Liquid Diethoxymethane Polysulfide Polymer	< 100	Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced	68611-50-7	Hazardous to the aquatic environment, Chronic, Category 3
Tris-2,4,6-(Dimethylaminomethyl)	< 18	2,4,6-Tridimethylaminomethylphenol; Phenol, 2,4,6-tris[(dimethylamino)methyl]-	90-72-2	Acute toxicity, oral, Category 4 Skin corrosion/irritation, Category 1C Skin sensitization, Category 1 Serious eye damage/irritation, Category 1
Bis(dimethylaminomethyl)phenol	< 3	-	71074-89-0	Acute toxicity, oral, Category 4 Acute toxicity, dermal, Category 4 Skin corrosion/irritation, Category 1B Serious eye damage/irritation, Category 1 Specific target organ toxicity — single exposure, Category 3 (Irritation of the respiratory tract.)

## SECTION 4: FIRST AID MEASURES



**Description of first aid measures**  
**Self-protection of the first aider**

Inhalation

Skin Contact

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.

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.

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.

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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 aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.
<b>Most important symptoms and effects, both acute and delayed</b>	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically. 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.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	As appropriate for surrounding fire. Suitable extinguishing media: alcohol resistant foam, Limestone powder, dry chemical, sand or carbon dioxide.
Suitable Extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Unsuitable extinguishing Media	May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon dioxide, Nitrogen oxides and Ammonia.
<b>Special hazards arising from the substance or mixture</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.
<b>Special protective equipment and precautions for fire fighters</b>	

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<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. Do not breathe vapour. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid release to the environment.
<b>Methods and material for containment and cleaning up</b>	Absorb 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.

## SECTION 7: HANDLING AND STORAGE

<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>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed, in a cool, well ventilated place. Recommended: Store locked up. Ambient.
Storage temperature	Keep away from: Oxidizing agents, Sodium hypochlorite and calcium hypochlorite, Organic acids and Mineral acids.
Incompatible materials	

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits</b>	No Occupational Exposure Limit assigned. No OSHA permissible exposure limit (PEL). No American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)
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<b>Biological Exposure Indices</b>	Not established.
<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>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.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166). Recommended: Tightly-fitting safety goggles.

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, Natural rubber or Nitrile rubber. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.

**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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Straw Yellow Liquid
Odor	Irritating odour
Odor Threshold	Not established.
pH	Not established.
Melting Point/Freezing Point	Not established.
Initial boiling point and boiling range	Not established.
Flash Point	Not applicable.
Evaporation rate (Butyl acetate = 1)	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 applicable.

### Other information

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

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## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	May react vigorously with oxidizing agents creating explosion hazard.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources and oxidizers.
<b>Incompatible materials</b>	Keep away from: Oxidizing agents, Sodium hypochlorite and calcium hypochlorite, Organic acids and Mineral acids.
<b>Hazardous decomposition product(s)</b>	May decompose in a fire giving off toxic fumes. Carbon monoxide, carbon dioxide, Nitrogen oxides and Ammonia.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects (Substances in preparations / mixtures)

<b>Acute toxicity - Ingestion</b>	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
<b>Acute toxicity - Inhalation</b>	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l.
<b>Acute toxicity - Skin Contact</b>	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> Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol	Skin Corrosion/Irritation, Category 1; Causes severe skin burns and eye damage. Skin Corrosion/Irritation, Category 1C; Causes severe skin burns and eye damage. Corrosive to rabbit skin (OECD 404) Skin Corrosion/Irritation, Category 1B; Causes severe skin burns and eye damage. EU classification and labelling inventory, ≥ 400 Notifiers
<b>Serious eye damage/irritation</b> Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol	Serious eye damage/irritation, Category 1; Causes serious eye damage. Serious eye damage/irritation, Category 1; Causes serious eye damage. Corrosive to eyes. (rabbit) (Unnamed publication, 1975) Serious eye damage/irritation, Category 1; Causes serious eye damage. EU classification and labelling inventory, ≥ 300 Notifiers
<b>Respiratory or skin sensitization</b> Tris-2,4,6-(Dimethylaminomethyl)	Skin sensitization, Category 1; May cause an allergic skin reaction. Skin sensitization, Category 1; May cause an allergic skin reaction. Human Positive data from patch testing. (Kanerva et al, 196)
<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>	Based upon the available data, the classification criteria are not met.
<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>Information on likely routes of exposure</b> Inhalation Ingestion Skin Contact Eye Contact	Possible – accidental exposure Unlikely – accidental exposure Possible – accidental exposure Unlikely – accidental exposure
<b>Early onset symptoms related to exposure</b>	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
<b>Delayed health effects from exposure</b>	None known.
<b>Other information</b> NTP Report on Carcinogens IARC Monographs OSHA Designated Carcinogen	Not listed Not listed Not listed

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Hazardous to the aquatic environment, Chronic, Category 3; Harmful to aquatic life with long lasting effects. Estimated Mixture LC50: >10 - ≤100 mg/l (Fish)
Liquid Diethoxymethane Polysulfide Polymer	Hazardous to the aquatic environment, Chronic, Category 3; Harmful to aquatic life with long lasting effects. EU classification and labelling inventory, ≥ 120 Notifiers
Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol	Not classified Not classified
<b>Persistence and degradability</b>	No data for the mixture as a whole. Part of the components are poorly biodegradable.
Liquid Diethoxymethane Polysulfide Polymer	No data
Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol	Not readily biodegradable (OECD 301D) No data
<b>Bioaccumulative potential</b>	No data for the mixture as a whole. The product is predicted to have low potential for bioaccumulation
Liquid Diethoxymethane Polysulfide Polymer	No data
Tris-2,4,6-(Dimethylaminomethyl) Bis(dimethylaminomethyl)phenol	No data No data
<b>Mobility in soil</b>	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).
<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	This material and its container must be disposed of as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.
<b>Additional Information</b>	Containers of this material may be hazardous when empty since they retain product residue. Ensure that all packaging is disposed of safely.

## SECTION 14: TRANSPORT INFORMATION

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

## SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture  
US Federal Regulations

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TSCA Chemical Data Reporting (CDR) Rule	Liquid Diethoxymethane Polysulfide Polymer - exempt from reporting under CDR Tris-2,4,6-(Dimethylaminomethyl) - Subject to 25,000 lb reporting threshold Bis(dimethylaminomethyl)phenol - Not Listed
EPCRA/SARA Section 302 Extremely Hazardous Substances	No Components Listed
EPCRA Section 313 Toxics Release Inventory (TRI) Program	No Components Listed
NIOSH Occupational Carcinogen List	No Components Listed
OSHA List of highly hazardous chemicals, toxics and reactives	No Components Listed
NTP Report on Carcinogens (RoC) List	No Components Listed
Poison Prevention Packaging Act	No Components Listed
<b>US State Regulations</b>	
California State, Proposition 65 List	No Components Listed
California State, Safer Consumer Products Regulations	No Components Listed
Maine State, Toxic Chemicals in Children's Products Act	No Components Listed
New Jersey State Worker and Community RTK Act	No Components Listed
Pennsylvania State, Worker and Community RTK Act	No Components Listed
Rhode Island State, Hazardous Substances RTK Act	No Components Listed
<b>Non-Regional</b>	
IARC Monographs, List of Classifications	No Components Listed

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16. Updated substance / mixture classification. Updated version and date. Please review SDS with care. See below -

Sections indicated with the following have been revised:

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### References:

Existing Safety Data Sheet (SDS), EU 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 in accordance with paragraph (d) of 29 CFR 1910.1200	Classification Procedure
Skin Corrosion/Irritation, Category 1	Threshold Calculation
Skin sensitization, Category 1	Threshold Calculation
Serious eye damage/irritation, Category 1	Threshold Calculation
Hazardous to the aquatic environment, Chronic, Category 3	Summation Calculation

### LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists  
IARC: International Agency for Research on Cancer  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OECD: Organisation for Economic Cooperation and Development  
OSHA: The Occupational Safety & Health Administration

PEL: Permissible exposure limit  
(Q)SAR: Quantitative structure-activity relationship  
REL: Recommended exposure limit  
TLV: Threshold Limit value  
TSCA: Toxic Substance Control Act



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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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