

SAFETY DATA SHEET

Version: 1.0
Date of Issue: 10-May-2017
Date of First Issue: 10-May-2017


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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

Product identifier used on the label	RTC-2 Epoxy Part B	
Other means of identification		
Chemical Name	Mixture	
CAS No.	Mixture	
EINECS No.	Mixture	
Recommended use of the chemical and restrictions on use		
Recommended use	PC14 Metal surface treatment products, including galvanic and electroplating products.	
Restrictions on use	None known.	
Details of the supplier of the safety data sheet		
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)	mm.us@vishaypg.com	
Emergency telephone number	1-800-424-9300	CHEMTREC (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200			
Physical hazards	Not Classified		
Health hazards	Skin corrosion/irritation, Category 1 Eye damage, category 1 Skin Sensitisation, Category 1 Specific target organ toxicity — single exposure, Category 3		
Environmental hazards	Hazardous to the aquatic environment, Chronic , Category 2		
Hazard Symbol			
Signal Word(s)	Danger		
Hazard Statement(s)	Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.		
Precautionary Statement(s)	Do not breathe vapour. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.		

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
Avoid release to the environment.
Store locked up.
Dispose of contents in accordance with local, state or national legislation.

Other hazards None known.

Percent of the mixture consists of ingredient(s) of unknown acute toxicity: 0%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures Substances in mixture

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Liquid Diethoxymethane Polysulfide Polymer	< 100	68611-50-7	614-671-8	Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 Toxic to aquatic life with long lasting effects.
Tris-2,4,6-(Dimethylaminomethyl)	< 18	90-72-2	202-013-9	Skin corrosion/irritation, Category 1A Eye damage, category 1 Skin Sensitisation, Category 1
Bis(dimethylaminomethyl)phenol	< 3	71074-89-0	275-162-0	Acute toxicity, Category 4 (Oral) Acute toxicity, Category 4 (Dermal) Skin corrosion/irritation, Category 1 Eye damage, category 1 Specific target organ toxicity — single exposure, Category 3

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid all contact. Do not breathe vapour.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped, apply artificial respiration. If breathing is laboured, oxygen should be administered by qualified personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Get immediate medical attention.

Skin Contact

IF ON SKIN: Remove contaminated clothing immediately and wash affected skin with plenty of water. Continue irrigation until medical attention can be obtained. Wash contaminated clothing before reuse.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get immediate medical attention.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If vomiting occurs

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Most important symptoms and effects, both acute and delayed
Indication of any immediate medical attention and special treatment needed
Notes to a physician:

spontaneously, keep head below hips to prevent aspiration into the lungs. If the victim is conscious and alert, give 2-4 glasses of water or milk. Get immediate medical attention.
Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause irritation to the respiratory system.
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.
IF INHALED: Initiate inhalative cortisone therapy (e.g. Auxiloson, Thomae).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Extinguish preferably with foam, carbon dioxide or dry chemical. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
None.

Unsuitable extinguishing Media

Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. (Carbon monoxide, Nitrogen oxides, Ammonia).

Special protective equipment and precautions for fire fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Avoid run off to waterways and sewers. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Methods and material for containment and cleaning up

Ensure adequate ventilation. Do not breathe fumes/vapour from heated product. Wear protective gloves/protective clothing/eye protection/face protection.
Stop leak if safe to do so. Contain spillages. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Avoid contact with skin, eyes or clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Keep container tightly closed, in a cool, well ventilated place.

Conditions for safe storage, including any incompatibilities

Storage temperature
Incompatible materials

Ambient.
Keep away from: Acids, Oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

No Occupational Exposure Limit assigned.
No OSHA permissible exposure limit (PEL).
No American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)

Biological Exposure Indices

Not established

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment (PPE)

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes.

Eye/face protection

Wear goggles giving complete protection to eyes to protect against liquid splashes.

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Skin protection



Respiratory protection



Wear impervious gloves. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Normally no personal respiratory protection is necessary. In case of inadequate ventilation wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Straw Yellow Liquid
Odor	Irritating odour
Odor 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 (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 ₂ 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.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	May react vigorously with oxidizing agents creating explosion hazard.
Conditions to avoid	Avoid contact with heat and ignition sources and oxidizers.
Incompatible materials	Acids, Oxidizing agents, Sodium hypochlorite and calcium hypochlorite.
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l.
Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

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Skin corrosion/irritation	bw/day. Skin corrosion/irritation, Category 1: Causes severe skin burns and eye damage.
Serious eye damage/irritation	Eye damage, category 1: Causes serious eye damage..
Respiratory or skin sensitization	Skin Sensitisation, Category 1: May cause an allergic skin reaction.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	Specific target organ toxicity — single exposure, Category 3: May cause respiratory irritation.
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.
Information on likely routes of exposure	
Inhalation	Possible – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure
Early onset symptoms related to exposure	Causes severe burns to skin, eyes and respiratory system.
Delayed health effects from exposure	May cause an allergic skin reaction. May cause respiratory irritation.
Other information	
NTP Report on Carcinogens	Not listed.
IARC Monographs	Not listed.
OSHA Designated Carcinogen	Not listed.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	Part of the components are poorly biodegradable.
Bioaccumulative potential	The product has no potential for bioaccumulation.
Mobility in soil	The product has moderate mobility in soil.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	This material and its container must be disposed of as hazardous waste. Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation.
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SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	UN 2735	UN 2735	UN 2735
UN proper shipping name	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))
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant	Environmentally hazardous substance
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
Special precautions for user	See Section: 2		

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SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA (Toxic Substance Control Act)	Tris-2,4,6-(Dimethylaminomethyl): Subject to 25,000 lb reporting threshold
EPCRA/SARA Section 302 Extremely Hazardous Substances	Not listed.
EPCRA Section 313 Toxics Release Inventory (TRI) Program	Not listed.
NIOSH Occupational Carcinogen List	Not listed.
OSHA List of highly hazardous chemicals, toxics and reactives	Not listed.
NTP Report on Carcinogens (RoC) List	Not listed.
Poison Prevention Packaging Act	Not listed.

US State Regulations

California State, Proposition 65 List	Not listed.
California State, Safer Consumer Products Regulations	Not listed.
Maine State, Toxic Chemicals in Children's Products Act	Not listed.
New Jersey State Worker and Community RTK Act	Not listed.
Pennsylvania State, Worker and Community RTK Act	Not listed.
Rhode Island State, Hazardous Substances RTK Act	Not listed.

Non-Regional

IARC Monographs, List of Classifications onal	Not listed.
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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: V1.0 – Not applicable

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References:

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

GHS Classification of the substance or mixture	Classification Procedure
Skin corrosion/irritation, Category 1	Threshold Calculation
Eye damage, category 1	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Specific target organ toxicity — single exposure, Category 3	Threshold Calculation
Hazardous to the aquatic environment, Chronic , Category 2	Summation Calculation

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists	REL: Recommended exposure limit
BEI: Biological Exposure Indices (ACGIH)	SCL: Specific Concentration Limit
IARC: International Agency for Research on Cancer	Skin ^o : Risk of overexposure via dermal contact
Irr: Irritation	STEL: Short Term Exposure Limit
NIOSH: National Institute of Occupational Safety and Health	TLV: Threshold Limit value
NTP: National Toxicology Program	TSCA: Toxic Substance Control Act
OSHA: The Occupational Safety & Health Administration	TWA: Time Weighted Average
PBT: Persistent, Bioaccumulative and Toxic	URT: Upper respiratory tract
PEL: Permissible exposure limit	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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