

SAFETY DATA SHEET VT-47 CCL - TC - RD

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

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1. Identification	
Product identifier	
Product name	VT-47 CCL - TC - RD
Synonyms; trade names	Copper Clad Laminate.
Recommended use of the chemical and restrictions on use	
Application	Production of printed circuit board materials.
Details of the supplier of the s	afety data sheet
Supplier	Ventec USA LLC 311 S. Highland Ave Fullerton, CA 92836 714-773-9621 SalesWest@ventec-usa.com
Manufacturer	Ventec Electronics (Suzhou) Co. Ltd. 308, TaiShan Road, New District Suzhou, Jiangsu, P.R.China 215129 sales@ventec.com.cn
Emergency telephone number	<u>r</u>
Emergency telephone	0086-512-68091810
2. Hazard(s) identification	
Classification of the substance	e or mixture
OSHA Regulatory Status	This Product is Not Hazardous under the OSHA Hazard Communication Standard.
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements Hazard statements	NC Not Classified

VT-47 CCL - TC - RD

3. Composition/information	on ingredients	
Mixtures		
Epoxy Resin - Fully Cured	- Proprietary Formulation 50.0	%
CAS number: 26265-08-7		
Classification		
Skin Irrit. 2 - H315		
Glass cloth	35.0'	%
CAS number: 65997-17-3		
Classification		
Not Classified		
Copper Foil	15.0'	%
CAS number: 7440-50-8		
Classification Not Classified		
The full text for all hazard st	atements is displayed in Section 16.	
Composition comments	Tested on 0.047" 1/1 (OA) material.	
4. First-aid measures		
Description of first aid meas	ures	
General information	Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.	
Inhalation	IF INHALED: Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Consult a physician for specific advice.	
Ingestion	IF SWALLOWED: Rinse mouth thoroughly with water. Consult a physician for specific advic	æ.
Skin Contact	Remove contaminated clothing. Rinse immediately with plenty of water.	
Eye contact	If dust has entered the eyes, proceed as follows. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.	
Protection of first aiders	If it is suspected that airborne contaminants are still present around the affected person, firs aid personnel should wear an appropriate respirator or self-contained breathing apparatus.	t
Most important symptoms a	nd effects, both acute and delayed	
Inhalation	Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract.	
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur. May cause	

Ingestion Due to the physical nature of this product, it is unlikely that ingestion will occur. May cause discomfort if swallowed.

- Skin contact Dust may cause slight irritation.
- Eye contact Dust may cause slight irritation.
- Indication of immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	None known.
Special hazards arising from t	he substance or mixture
Specific hazards	The product is not flammable.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Halogenated hydrocarbons. Acrid smoke or fumes. Toxic gases or vapors.
Advice for firefighters	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
6. Accidental release measures	
Personal precautions, protecti	ve equipment and emergency procedures
Personal precautions	Avoid inhalation of dust and contact with skin and eyes.
Environmental precautions	
Environmental precautions	Avoid release to the environment. Avoid spreading dust or contaminated materials.
Methods and material for cont	ainment and cleaning up
Methods for cleaning up	Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely.
7. Handling and storage	
Precautions for safe handling	
Usage precautions	No specific requirements are anticipated under normal conditions of use.
Advice on general occupational hygiene	No specific requirements are anticipated under normal conditions of use.
Conditions for safe storage, including any incompatibilities	
Storage precautions	No specific requirements are anticipated under normal conditions of use.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.
8. Exposure Controls/persona	I protection
Control parameters Occupational exposure limits	

Occupational exposure limits

In relation to glass fiber only. In relation to copper dust only.

Glass cloth

In relation to glass fiber only.	
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m ³	total dust
Long-term exposure limit (8-hour TWA): ACGIH 1 1 fiber/cn	า3

Copper Foil

Long-term exposure limit (8-hour TWA):ACGIH 0.2 mg/m³fumeLong-term exposure limit (8-hour TWA):OSHA 1 mg/m³dusts and mistsLong-term exposure limit (8-hour TWA):ACGIH 1 mg/m³dusts and mistsLong-term exposure limit (8-hour TWA):OSHA 0.1 mg/m³fumeACGIH = American Conference of Governmental Industrial Hygienists.OSHA = Occupational Safety and Health Administration.

Ingredient comments	No data available on the specific mixture.
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Exposure controls	
Appropriate engineering controls	Mechanical ventilation or local exhaust ventilation may be required.
Personal protection	The following personal protection may be needed if long term exposure during machining, grinding and sawing.
Eye/face protection	Wear eye protection.
Hand protection	Wear protective gloves.
Other skin and body protection	No specific requirements are anticipated under normal conditions of use.
Hygiene measures	Good personal hygiene procedures should be implemented.
Respiratory protection	Wear a suitable dust mask.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Solid.
Odor	No characteristic odor.
Odor threshold	Does not apply, as product is odorless.
Flammability (solid, gas)	UL-94 V0
Relative density	~ 1.6 - 1.9
Decomposition Temperature	355°C
Comments	Information given is applicable to the product as supplied.
10. Stability and reactivity	
10. Stability and reactivity Reactivity	Not reactive under normal use and conditions.
	Not reactive under normal use and conditions. Stable under normal use and conditions.
Reactivity	
Reactivity Stability Possibility of hazardous	Stable under normal use and conditions.

Hazardous decomposition products	Will decompose at temperatures exceeding 355°C. Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen bromide (HBr). Nitrous gases (NOx).
11. Toxicological information	
Information on toxicological eff	fects
Toxicological effects	No data available on the specific mixture.
Skin Contact	Powder may irritate skin.
Eye contact	Powder may irritate the eyes.
12. Ecological Information	
Ecotoxicity	There are no data on the ecotoxicity of this product.
Persistence and degradability	
Persistence and degradability	The product is not biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	No data available on bioaccumulation.
Mobility in soil	
Mobility	No data available.
13. Disposal considerations	
Waste treatment methods	
General information	External recovery, treatment, recycling and disposal of waste should comply with all applicable local and/or national regulations.
Waste class	As supplied, this material is not regulated as hazardous waste under the US EPA Resources Conservation and Recovery Act (RCRA).
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
15. Regulatory information	
Regulatory Status	Information on safety, health and environmental regulations specific to this product are referred to where data is available.
US Federal Regulations	
SARA Section 302 Extremely	Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Some of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins The product does not contain any substances restricted under Proposition 65.

Massachusetts "Right To Know" List

Some of the ingredients are listed or exempt.

Minnesota "Right To Know" List Some of the ingredients are listed or exempt.

New Jersey "Right To Know" List Some of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List Some of the ingredients are listed or exempt.

Inventories Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification Not listed.

16. Other information

Issued by	HS&E Manager.
Revision date	9/16/2017
Revision	Issue 1
SDS No.	4526
SDS status	Approved.
Hazard statements in full	H315 Causes skin irritation.
NFPA - health hazard	Exposure to dust could cause irritation but only minor residual injury even if no treatment given
NFPA - flammability hazard	Material is self extinguishing.
NFPA - instability hazard	Normally stable, even under fire exposure conditions, and is not reactive with water.
ACA HMIS Flammability rating.	Minimal Hazard.
ACA HMIS Physical hazard rating.	Normally stable. (0)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.