

SAFETY DATA SHEET VT-47PP / VT-47NF/LFPP / VT-47VF

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

1. Identification		
Product identifier		
Product name	VT-47PP / VT-47NF/LFPP / VT-47VF	
Synonyms; trade names	Prepreg with FR4 Epoxy Resin.	
Recommended use of the chemical and restrictions on use		
Application	Production of printed circuit board materials.	
Details of the supplier of the sa	afety data sheet	
Supplier Manufacturer	Ventec USA LLC 311 S. Highland Ave Fullerton, CA 92836 714-773-9621 SalesWest@ventec-usa.com Ventec Electronics (Suzhou) Co. Ltd. 308, TaiShan Road, New District Suzhou, Jiangsu, P.R.China 215129 sales@ventec.com.cn	
Emergency telephone number		
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	

3. Composition/information on ingredients

Mixtures		
Epoxy Resin - Proprietary Formulation	64.0%	
CAS number: 26265-08-7		
Classification		
Skin Irrit. 2 - H315		
Glass cloth	36.0%	
CAS number: 65997-17-3		
Classification		
Not Classified		
The full text for all hazard statements is displayed in Section 16.		
Composition comments Tested on 1080 RC 64% material.		
4. First-aid measures		

Description of first aid measures 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. IF SWALLOWED: Rinse mouth thoroughly with water. Consult a physician for specific advice. Ingestion 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, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Most important symptoms and 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 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 U

g 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 measure	15	
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, in	cluding 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		
In relation to glass fiber only.		
Glass cloth		
In relation to glass fiber only. Long-term exposure limit (8-ho	pur TWA): OSHA 15 mg/m³ total dust	
Long-term exposure limit (8-hour TWA): ACGIH 1 1 fiber/cm3		
OSHA = Occupational Safety and Health Administration. ACGIH = American Conference of Governmental Industrial Hygienists.		

Ingredient comments No data available on the specific mixture.

Exposure controls

9. Physical and Chemical Properties

VT-47PP / VT-47NF/LFPP / VT-47VF

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.

Information on basic physical	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		
Reactivity	Not reactive under normal use and conditions.	
Stability	Stable under normal use and conditions.	
Possibility of hazardous reactions	Product is stable. Hazardous polymerisation will not occur.	
Conditions to avoid	Avoid generation and spreading of dust.	
Materials to avoid	Strong acids. Strong alkalis. Strong oxidizing agents.	
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 ef	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		

Persistence and degradabilityPersistence and degradabilityPersistence and degradabilityBioaccumulative potentialBio-Accumulative PotentialNo daMobility in soil	e are no data on the ecotoxicity of this product. product is not biodegradable. ata available on bioaccumulation. ata available.
Persistence and degradabilityThe pBioaccumulative potentialNo daBio-Accumulative PotentialNo daMobility in soilNo daMobilityNo da13. Disposal considerations	ata available on bioaccumulation.
Bioaccumulative potential Bio-Accumulative Potential No da Mobility in soil Mobility No da 13. Disposal considerations	ata available on bioaccumulation.
Bio-Accumulative Potential No data Mobility in soil No data Mobility No data 13. Disposal considerations	
Mobility in soil Mobility No da 13. Disposal considerations	
Mobility No da 13. Disposal considerations	ata available.
13. Disposal considerations	ata available.
Waste treatment methods	
	nal recovery, treatment, recycling and disposal of waste should comply with all cable local and/or national regulations.
	pplied, this material is not regulated as hazardous waste under the US EPA Resources ervation and Recovery Act (RCRA).
14. Transport information	
-	product is not covered by international regulations on the transport of dangerous goods G, IATA, DOT).
15. Regulatory information	
	nation on safety, health and environmental regulations specific to this product are ed 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 Carcinogen The product does not contain any su Massachusetts "Right To Know" List Some of the ingredients are listed or	bstances restricted under Proposition 65.
Minnesota "Right To Know" List Some of the ingredients are listed or	

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.	4533
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.