

SAFETY DATA SHEET VT-441PP / VT-441V PP

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

1. Identification	
Product identifier	
Product name	VT-441PP / VT-441V PP
Synonyms; trade names	Prepreg with Environmentally Friendly FR4 Epoxy Resin.
Recommended use of the che	mical 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,
Emergency telephone number Emergency telephone	Jiangsu, P.R.China 215129 sales@ventec.com.cn
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 of	on ingredients	
Mixtures		
Epoxy Resin - Proprietary E Formulation.	Environmentally Friendly 64.0%	
CAS number: —		
Classification Skin Irrit. 2 - H315		
Glass cloth	36.0%	
CAS number: 65997-17-3		
Classification Not Classified		
The full text for all hazard sta	atements is displayed in Section 16.	
Composition comments	Tested on 1080 RC 64% 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 advice.	
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 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 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	ne 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). 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	s	
Personal precautions, protectiv	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/personal 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-hour 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

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 Prop	perties
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	385°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 385°C. Carbon monoxide (CO). Carbon dioxide (CO2). 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.
	Powder may irritate skin.
Eye contact	
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 lis	
SARA (311/312) Hazard Categ None	jories
OSHA Highly Hazardous Che Not listed.	micals
US State Regulations	
	inogens and Reproductive Toxins any substances restricted under Proposition 65.
The product does not contain a	
Massachusetts "Right To Know Some of the ingredients are lis	

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	03/11/2020
Revision	Issue 2
SDS No.	4547
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.