

SAFETY DATA SHEET VT-90H CCL - RD

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

1. Identification

Product identifier

Product name VT-90H CCL - RD

Synonyms; trade names Copper Clad Laminate with Polyimide Resin.

Recommended use of the chemical and restrictions on use

Application Production of printed circuit board materials.

Details of the supplier of the safety 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

Emergency telephone 0086-512-68091810

2. Hazard(s) identification

Classification of the substance 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

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3. Composition/information on ingredients

Mixtures

Polyimide Resin - Proprietary Formulation 50.0%

CAS number: 62929-02-6

Classification
Not Classified

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 statements is displayed in Section 16.

Composition comments Tested on 0.047" 1/1 (OA) 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.

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 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

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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 the substance or mixture

Specific hazards The product is not flammable.

Hazardous combustion Therm

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, protective 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 containment 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 precautionsNo 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/personal protection

Control parameters

Occupational exposure limits

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

Glass cloth

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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

Copper Foil

Long-term exposure limit (8-hour TWA): ACGIH 0.2 mg/m³ fume

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m³ dusts and mists Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m³ dusts and mists

Long-term exposure limit (8-hour TWA): OSHA 0.1 mg/m³ fume ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

Ingredient commentsNo 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 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 HB

Relative density ~ 1.1 - 1.2

Decomposition Temperature 400°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.

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Hazardous decomposition

products

Will decompose at temperatures exceeding 400°C. Carbon monoxide (CO). Carbon dioxide

(CO2). Hydrogen bromide (HBr). Nitrous gases (NOx).

11. Toxicological information

Information on toxicological effects

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

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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.
 4555

SDS status Approved.

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 Normally

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.