

# SAFETY DATA SHEET VT-481 CCL - TC - RD

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name VT-481 CCL - TC - RD

Synonyms; trade names Copper Clad Laminate.

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Production of printed circuit board materials.

# 1.3. Details of the supplier of the safety data sheet

Supplier Ventec-Europe Limited

Unit 1 Trojan Business Centre

Tachbrook Park Warwick. CV34 6RH 01926 889822

sales@ventec-europe.com

Manufacturer Ventec Electronics (Suzhoe) Co. Ltd

308, Taishan Road,

New District, Suzhoe Jiangsu, P.R.C. 215129

# 1.4. Emergency telephone number

**Emergency telephone** 0086-512-68091810

## SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

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## SECTION 3: Composition/information on ingredients

## 3.2. 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 EC number: 231-159-6

Classification
Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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

# SECTION 4: First aid measures

## 4.1. 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.

aid personnel should wear an appropriate respirator or self-contained breathing apparatus.

# 4.2. 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.

# 4.3. Indication of any immediate medical attention and special treatment needed

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# **SECTION 5: Firefighting measures**

# 5.1. 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.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** The product is not flammable.

Hazardous combustion

products

for firefighters

Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Halogenated hydrocarbons. Acrid smoke or

5.3. Advice for firefighters

Special protective equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

# SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of dust and contact with skin and eyes.

fumes. Toxic gases or vapours.

# 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment. Avoid spreading dust or contaminated materials.

## 6.3. 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.

# 6.4. Reference to other sections

# SECTION 7: Handling and storage

## 7.1. 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.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions No specific requirements are anticipated under normal conditions of use.

## 7.3. Specific end use(s)

## SECTION 8: Exposure Controls/personal protection

## 8.1. Control parameters

# 8.2. Exposure controls

Appropriate engineering

Mechanical ventilation or local exhaust ventilation may be required.

controls

Personal protection The following personal protection may be needed if long term exposure during machining,

grinding and sawing.

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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.

# SECTION 9: Physical and Chemical Properties

# 9.1. Information on basic physical and chemical properties

Appearance Solid.

Odour No characteristic odour.

Odour threshold Does not apply, as product is odourless.

Flammability (solid, gas) UL-94  $\vee$ 0 Relative density  $\sim 1.6 - 1.9$ 

**Decomposition Temperature** 355°C

**Comments** Information given is applicable to the product as supplied.

## 9.2. Other information

## SECTION 10: Stability and reactivity

# 10.1. Reactivity

**Reactivity** Not reactive under normal use and conditions.

10.2. Chemical stability

Stability Stable under normal use and conditions.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

products

Product is stable. Hazardous polymerisation will not occur.

# 10.4. Conditions to avoid

**Conditions to avoid** Avoid generation and spreading of dust.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

# 10.6. Hazardous decomposition products

Hazardous decomposition

Will decompose at temperatures exceeding 355°C. Carbon monoxide (CO). Carbon dioxide

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

# SECTION 11: Toxicological information

# 11.1. 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.

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## SECTION 12: Ecological Information

# 12.1. Toxicity

## 12.2. Persistence and degradability

Persistence and degradability The product is not biodegradable.

# 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

**Mobility** No data available.

## 12.5. Results of PBT and vPvB assessment

## 12.6. Other adverse effects

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

General information External recovery, treatment, recycling and disposal of waste should comply with all

applicable local and/or national regulations.

# **SECTION 14: Transport information**

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

# 14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

# **SECTION 15: Regulatory information**

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

National regulations None Listed.

EU legislation None Listed.

## 15.2. Chemical safety assessment

# SECTION 16: Other information

**Issued by** HS&E Manager.

Revision date 16/09/2017

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SDS number 4535

SDS status Approved.

Hazard statements in full H315 Causes skin irritation.

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.