



One Technology Drive/ P.O. Box 188 /Rogers, CT 06263-0188 / 860.774.9605

## PRODUCT SAFETY INFORMATION SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: RT/duroid® 6035HTC High Frequency Material  
CHEMICAL FAMILY: Fluoropolymer Composite Materials  
HMIS RATING: H 1 F 1 R 0  
USE OF MATERIAL: Printed Circuit Boards  
EMERGENCY PHONE: 860-774-9605 (Monday – Friday 8 a.m. – 5 p.m. EST)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

This material is produced as an “article” as defined in 20 CFR 1910.1200 and REGULATION (EC) N° 1907/2006 is therefore exempt from the Hazard Communication Standard and REACH. Since this material does not release and will not result in exposure to a hazardous chemical under normal conditions of use, no Safety Data Sheet is required.

<u>Chemical Name</u>	<u>CAS No.</u>	<u>EINECS /ELINCS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>EU Classification</u>
<b><u>DIELECTRIC</u></b>					
Fused Silica	60676-86-0	262-373-8	80 mg/m <sup>3</sup> %SiO <sub>2</sub>	NE	NC according to 67/548/EEC
Titanium Dioxide	13463-67-7	236-675-5	15 mg/m <sup>3</sup> (Total Dust)	10 mg/m <sup>3</sup>	NC according to 67/548/EEC
Polytetrafluorethylene (PTFE)	9002-84-0	NE	NE	NE	NC according to 67/548/EEC
Boron Nitride	10043-11-5	NE	15 mg/m <sup>3</sup> (Total Dust)	10 mg/m <sup>3</sup>	NC according to 67/548/EEC
<b><u>CLADDING (Copper, Aluminum or Brass)</u></b>					
Copper	7440-50-8	231-159-6	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	NC according to 67/548/EEC

The material contains no other hazardous ingredients as defined in OSHA’s Hazard Communication Standard 29 CFR 1910.1200 or EU directive 1999/45/EC, and do not present a health or environmental hazard according to directive 67/548/EC.

### 3. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NA  
LABELING REQUIREMENTS: NA



## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION: If mechanical ventilation is absent or inadequate to maintain exposure levels below those listed in Section 2 use NIOSH/MSHA approved respirators.

### VENTILATION

LOCAL:

Recommended in operations that create airborne dust or where material is heated above 500°F. Local exhaust is recommended in all heating operations where fumes are emitted. Follow good industrial hygiene practice.

GENERAL:

Recommended as with all industrial operations.

### PERSONAL PROTECTION

HAND:

Cut resistant gloves.

EYE:

Safety glasses with side shields. Do not wear contact lenses.

OTHER:

Safety shower/eyewash in the area if possible exposure to tissue. Do not smoke or keep smoking materials in areas where material is machined or excessive dusting occurs. Wash thoroughly before eating or smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Gray or White Sheet Clad with Copper

ODOR: None

PHYSICAL STATE: Solid

BOILING POINT: NA

MELTING POINT: NA

FREEZING POINT: NA

FLASH POINT: NA

WATER SOLUBILITY: NA

VAPOR DENSITY: NA

VAPOR PRESSURE: NA

SPECIFIC GRAVITY: NA (water = 1)

PARTITION COEFFICIENT: NA

EVAPORATION RATE: 0

RELATIVE DENSITY: NA

VISCOSITY: NA

AUTO-IGNITION TEMPERATURE: NA

DECOMPOSITION TEMPERATURE: NA

PH: NA

FLAMMABILITY: NA

## 10. STABILITY AND REACTIVITY

STABLE  UNSTABLE  PTFE begins to decompose very slowly above 500°F. Decomposition increases rapidly above 750°F and processing at these temperatures for prolonged periods of time is not recommended.

MATERIALS TO AVOID:

None under normal usage.

HAZARDOUS POLYMERIZATION:

May Occur  Does Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Above 250°C material can evolve toxic gaseous materials such as:  
Tetrafluoroethylene (above 800°F)  
Hexafluoropropylene (above 825°F)  
Perfluoroisobutylene (above 885°F)  
Carbonyl Fluoride (above 930°F)

## 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: NA

## 12. ECOLOGICAL INFORMATION

NA

## 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES: None

AFFECTING DISPOSAL:

ENVIRONMENTAL TOXICITY DATA: NA

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, provincial, and local laws and regulations.

## 14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated

UN PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS (ES): Not Regulated

PACKING GROUP: Not Regulated

ENVIRONMENTAL HAZARDS: Not Regulated

## 15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:

Canadian (DSL/NDL): NE

Australian (ACIS): NE

Korea (KECI): NE

Japan (ENCS, MITI): NE

China (IECSC): Article

EU Directive 2011/65/EC (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.

TSCA  
(*Toxic Substances Control Act*): All ingredients are TSCA listed.

CERCLA  
(*Comprehensive Emergency Response, Compensation, and Liability Act*): NA

SARA TITLE III  
(*Superfund Amendments and Reauthorization Act*): NA

311/312 HAZARD CATEGORIES: None

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

**CAS #**  
7440-50-4

**CHEMICAL NAME**  
Copper

**PERCENT BY WEIGHT**  
Varies

## 16. OTHER INFORMATION

NA = Not Applicable  
NE = Not Established  
NC = Not Classified

FILE: 99282-RT6035HTC-08192020

Date Prepared: 08-19-2020

PREPARED BY: EHS Engineering  
REVIEWED BY: Corporate EHS

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