

PRODUCT SAFETY INFORMATION SHEET

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE 1. **COMPANY/UNDERTAKING**

	TRADE NAME:	RT/duroid® 6006 & 6010 Laminates		
	CHEMICAL FAMILY:	Polytetrafluoroethylene Composite		
	HMIS RATING:	H 1 F 1 R 0		
	USE OF ARTICLE	Printed Circuit Boards Apr. 12, 2021 Rogers Corporation 100 South Roosevelt Avenue Chandler, AZ 85226-3415 Phone: 001-480-961-1382 Fax: 001-480-961-4533 Email: msdsinfo@rogerscorporation.com		
	DATE ISSUED:			
	COMPANY/UNDERTAKING IDENTIFICATION:			
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2.	HAZARDS IDENTIFICATION			
Ζ.	HAZARDS IDENTIFICATION CLASSIFICATION OF THE MATERIAL: LABELING REQUIREMENTS: EFFECTS OF OVEREXPOSURE:	NE NE None anticipated with normal handling. Machining may create dust. Processing material at temperatures exceeding decomposition temperature may release toxic fumes.		
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3. **COMPOSITION/INFORMATION ON INGREDIENTS**

This material is produced as an "article" as defined in 29 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.

Chemical Name	CAS No.	<u>EINECS</u> /ELINCS	<u>%</u>	OSHA PEL	<u>ACGIH</u> <u>TLV</u>	EU Classification
Microfiber Glass (Encapsulated in a Polymer Matrix)	65997-17-3	266-046-0	Varies	5 mg/m ³ (Resp. Dust)	1 f/cc	Not Classified Under 67/548/EEC
Titanium Dioxide	13463-67-7	236-675-5	Varies	15 mg/m ³ (Total Dust)	10 mg/m ³ (Total Dust)	Not Classified Under 67/548/EEC

Copper	7440-50-8	231-159-6	Varies	1 mg/m ³ (dust & mist)	1 mg/m ³ (dust & mist)	Not Classified Under 67/548/EEC
Aluminum	7429-90-5	231-072-3	Varies	5 mg/m ³ (Resp. Dust)	1 mg/m ³ (Resp. Dust)	Not Classified Under 67/548/EEC (only Al powder is Classified)

4.	FIRST-AID MEASURES			
	INHALATION:	(Dust & Fume) Remove to fresh air. Obtain medical attention if symptoms persist.		
	EYE CONTACT:	 (Dust) Flush immediately with large amounts of water for 15 to 20 minutes. Do not rub eyes. Obtain medical attention if symptoms persist. (Dust) Remove contaminated clothing and flush area with water for 15 to 20 minutes. Obtain medical attention if symptoms persist. 		
	SKIN CONTACT:			
	INGESTION:	(Dust) Not a likely route of entry – obtain medical attention.		
5.	FIRE-FIGHTING MEASURES			
	FLASH POINT:	NE °C (°F) Flammable Limits: NE		
	AUTOIGNITION TEMPERATURE:	NE °C (°F)		
	EXTINGUISHING MEDIA:	XWater SprayXFoamXCO2XDry ChemicalXOther –		
	SPECIAL FIRE FIGHTING PROCEDURES:	Decomposition in a fire may produce toxic fumes. Firefighters should be equipped with self-contained breathing apparatus and turnout gear.		
	UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known.		

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	In case of fire toxic fumes are emitted. Wear suitable protective equipment. Do not breathe dust. Eliminate sources of ignition. Avoid contact with skin and eves.
ENVIRONMENTAL PRECAUTIONS:	Prevent from entering sewer system, surface water or soil.
CLEANING METHODS:	Sweep or shovel into appropriate container for disposal. Avoid creation of nuisance dust.

7. HANDLING AND STORAGE

PERSONAL PROTECTION

HANDLING:	Wear suitable protective equipment, refer to Section 8.
STORAGE:	Keep in a cool, well-ventilated area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

 RESPIRATORY PROTECTION:
 None needed under normal conditions. If mechanical ventilation is absent or inadequate to maintain exposure levels below those listed in Section 2, a respirator, meeting NIOSH requirements, should be used. A qualified individual should evaluate each situation.

 VENTILATION
 Recommended for all industrial operations.

 GENERAL:
 Recommended for all industrial operations.

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HAND:	Cut resistant gloves.
EYE:	Safety glasses with side-shields are recommended in all industrial operations.
SKIN:	None required.
OTHER:	Safety shower/eyewash in the area. 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: ODOR:	Gray or White board Clad with Copper, Aluminum, or Brass None
PHYSICAL STATE:	Solid
BOILING POINT:	NA °C (°F)
MELTING POINT:	NE °C (°F)
FREEZING POINT:	NA °C (°F)
FLASH POINT:	NE °C (°F)
WATER SOLUBILITY:	NE
VAPOR DENSITY:	NA
VAPOR PRESSURE:	NA
SPECIFIC GRAVITY:	NE (Water = 1)
PARTITION COEFFICIENT:	NA
EVAPORATION RATE:	NA
RELATIVE DENSITY:	NA
VISCOSITY:	NA
AUTO-IGNITION TEMPERATURE:	NE °C (°F)
DECOMPOSITION TEMPERATURE:	NE °C (°F)
PH:	NA
FLAMMABILITY:	NE

10. STABILITY AND REACTIVITY

STABILITY	Stable		
CONDITIONS TO AVOID:	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:	NE		
HAZARDOUS POLYMERIZATION:	Does not occur.		
HAZARDOUS DECOMPOSITION	Tetrafluoroethylene (above 800°F)		
PRODUCTS:	Hexafluoropropylene (above 825°F)		
	Perfluoroisobutylene (above 885°F)		
	Carbonyl Fluoride (above 930°F)		

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS:

IARC has listed Microfiber Glass as Group 2B (possibly carcinogenic to humans).

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

NE

13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL: ENVIRONMENTAL TOXICITY DATA: NE Dispose of in accordance with applicable federal, state, provincial, and local laws and regulations.

14. TRANSPORT INFORMATION

UN NUMBER: UN PROPER SHIPPING NAME: HAZARD CLASS (ES): PACKING GROUP: ENVIRONMENTAL HAZARDS: Not Regulated Not Regulated Not Regulated Not Regulated NE

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:	
Canadian (DSL/NDSL):	Article – exempt.
Australian (ACIS):	Article – exempt.
Korea (KECI):	Article – exempt.
Japan (ENCS, MITI):	Article – exempt.
China (IECSC)	Article – exempt.
EU Directive 2011/65/EC (RoHS):	Does not contain any intentionally added substances mentioned by the RoHS directive.
TSCA	All materials are listed or exempt from TSCA listing.
(Toxic Substances Control Act):	
ČERCLA	NA
(Comprehensive Emergency Response, Compensation, and Liability Act): SARA TITLE III	NA
(Superfund Amendments and Reauthorization Act):	
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 #	CHEMICAL NAME	PERCENT BY WEIGHT
7429-90-5	Aluminum	Varies
7440-50-4	Copper	Varies
16. OTHER INFORMATION		

FILE:	99042-RTduroid 6006 6010 Laminates-04122021
PREPARED BY:	EHS Engineering
REVIEWED BY:	Corporate EHS
	PREPARED BY:

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