



PRODUCT SAFETY INFORMATION SHEET

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

TRADE NAME: RT/duroid® 6202, 6202PR
CHEMICAL FAMILY: Fluoropolymer Composite Material
HMIS RATING: H 1 F 1 R 0
USE OF ARTICLE: Circuit Board Material
DATE ISSUED: 1/19/2015
COMPANY/UNDERTAKING IDENTIFICATION: Rogers Corporation
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2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NE
LABELING REQUIREMENTS: NE
EFFECTS OF OVEREXPOSURE: None anticipated with normal handling. Machining may cause dusting. Processing material at temperatures exceeding decomposition temperature may release toxic fumes.
INHALATION: Dusts may cause respiratory irritation. Exposure to copper fume or PTFE decomposition products may cause symptoms of metal or polymer fume fever. This is characterized by flue-like symptoms (fever, chills, muscle aches) that last about 24 hours.
EYE CONTACT: Dust may cause irritation. Flush eyes with water and seek medical attention if necessary.
SKIN CONTACT: Dust may cause irritation. Wash thoroughly with soap and water.
INGESTION: None known.
CHRONIC: None known.

3. 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</u> <u>/ELINCS</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>China</u> <u>OEL</u>	<u>EU</u> <u>Classification</u>
NA	NA	NA	NA	NA	NA	NA	NA

4. FIRST-AID MEASURES

INHALATION:	Remove to fresh air. Obtain medical attention if symptoms persist.
EYE CONTACT (Dust):	Flush eyes with large amounts of water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
SKIN CONTACT (Dust):	Wash area of contact thoroughly with soap and water. Consult a physician if irritation persists.
INGESTION:	Not a likely route of exposure. Seek medical attention symptomatically.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	NE °C (°F)	Flammable Limits:	LEL	<u>NA</u>	UEL	<u>NA</u>
AUTOIGNITION TEMPERATURE:	NE °C (°F)					
EXTINGUISHING MEDIA:	<u>X</u> Water Spray	<u>X</u> Foam	<u>X</u> CO ₂			
	<u>X</u> Dry Chemical	<u> </u> Other –				
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.					
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Decomposition in a fire may produce toxic fumes.					

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Do not smoke or keep smoking materials in areas where material is machined or excessive dusting occurs. Wash thoroughly before eating or smoking. Polymer particles can reach decomposition temperatures during smoking and may cause symptoms or Polymer Fume Fever.
ENVIRONMENTAL PRECAUTIONS:	NA
CLEANING METHODS:	None specified.

7. HANDLING AND STORAGE

HANDLING:	NA
STORAGE:	Keep in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	If mechanical ventilation is absent or inadequate to maintain exposure levels below those listed in Section 2, use appropriate NIOSH/MSHA approved respirators.
<u>VENTILATION</u>	
LOCAL:	Use local exhaust 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.
GENERAL:	Recommended for all industrial operations.

PERSONAL PROTECTION

HAND:	Gloves to avoid skin contact.
EYE:	Safety glasses with side-shields are recommended in all industrial operations.
SKIN:	None required.
OTHER:	Safety shower/eyewash in the area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Gray or White Sheet – Clad with Copper
ODOR:	NA
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:	In-Soluble
VAPOR DENSITY:	NA
VAPOR PRESSURE:	NA
SPECIFIC GRAVITY:	2.1
PARTITION COEFFICIENT:	NA
EVAPORATION RATE:	NA
RELATIVE DENSITY:	NA
VISCOSITY:	NA
AUTO-IGNITION TEMPERATURE:	NA °C (°F)
DECOMPOSITION TEMPERATURE:	NA °C (°F)
PH:	NA
FLAMMABILITY:	NA

10. STABILITY AND REACTIVITY

STABLE	X	UNSTABLE	Material 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.
	_____	_____	
CONDITIONS TO AVOID:	NE		
MATERIALS TO AVOID:	NE		
HAZARDOUS POLYMERIZATION:	_____	May Occur	X _____ Does Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:			Decomposition in a fire may produce toxic fumes.

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS:	NA
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12. ECOLOGICAL INFORMATION

ECOTOXICITY:	NA
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13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL:	None
ENVIRONMENTAL TOXICITY DATA:	NA
WASTE DISPOSAL METHOD:	Do Not Incinerate. 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: NE

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:
Canadian (DSL/NDL): Listed
Australian (ACIS): NE
Korea (KECI): NE
Japan (ENCS, MITI): NE
China (SEPA): Article – exempt.
EU Directive 2011/65EU (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.

European:
Symbol: Not classified according to directive 1999/45/EU 2001/60/EC (dangerous preparations).

R-Phase(s): NA
S-Phase(s): NA
TSCA: All materials are listed or exempt from TSCA listing.
(Toxic Substances Control Act):
CERCLA: 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:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
7440-50-8	Copper	Varies

16. OTHER INFORMATION

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

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99167

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