



# PRODUCT SAFETY INFORMATION SHEET

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

PRODUCT NAME: RT/Duroid® 6002 Microwave Laminate

PRODUCT CODE/PART #s: 99041

USE OF ARTICLE Printed Circuit Boards

COMPANY/UNDERTAKING IDENTIFICATION: Rogers Corporation  
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Chandler, AZ 85226-3415  
Phone: 001-480-961-1382  
Fax: 001-480-961-4533  
Email: msdsinfo@rogerscorporation.com

## 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: This material is not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

LABELING REQUIREMENTS: NA

OTHER HAZARDS: None anticipated with normal handling. Cutting and other finishing may create dust. Processing material at temperatures exceeding decomposition temperature may release toxic vapors and gases.

## 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.

<u>Chemical Name</u>	<u>% by weight</u>	<u>CAS No.</u>
Microfiber Glass (Encapsulated in a Polymer Matrix)	<10	65997-17-3
Fused Silica	<80	60676-86-0
Copper	Varies	7440-50-8
Aluminum	Varies	7429-90-5

## 4. FIRST-AID MEASURES

INHALATION: (Dust) If particulate is inhaled, remove to fresh air. Obtain medical attention if symptoms occur.

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 with water and soap. Obtain medical attention if symptoms persist.

INGESTION: Do not induce vomiting. If gastrointestinal discomfort occurs, seek medical attention.

## 5. FIRE-FIGHTING MEASURES

FLASH POINT: NE Flammable Limits: NE  
AUTOIGNITION TEMPERATURE: NE

EXTINGUISHING MEDIA:  X  Water Spray  X  Foam  X  CO<sub>2</sub>  
 X  Dry Chemical \_\_\_\_\_ Other –

SPECIAL FIRE FIGHTING PROCEDURES: Decomposition in a fire may produce toxic fumes (See Section 10). 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: NA  
ENVIRONMENTAL PRECAUTIONS: NA  
CLEANING METHODS: Sweep or shovel into appropriate container for disposal. Avoid creation of nuisance dust.

## 7. HANDLING AND STORAGE

HANDLING: Avoid prolonged contact with eyes and repeated contact with skin.  
STORAGE: Keep at room temperature.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: None needed under normal conditions. If heating material, odors may be produced, use a respirator meeting NIOSH requirements if necessary.

VENTILATION  
LOCAL: Recommended for all industrial operations.  
GENERAL: Recommended for all industrial operations.

PERSONAL PROTECTION  
HAND: Gloves to avoid skin contact if desired.  
EYE: Safety glasses with side-shields are recommended in all industrial operations  
SKIN: None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Gray or White Sheet Clad with Copper, Aluminum or Brass Foil  
ODOR: None  
PHYSICAL STATE: Solid  
BOILING POINT: NA  
MELTING POINT: NE  
FREEZING POINT: NE  
FLASH POINT: NE  
WATER SOLUBILITY: NE  
VAPOR DENSITY: NE

VAPOR PRESSURE:	NE
SPECIFIC GRAVITY:	2.1 (Water = 1)
PARTITION COEFFICIENT:	NE
EVAPORATION RATE:	0
RELATIVE DENSITY:	NE
VISCOSITY:	NA
AUTO-IGNITION TEMPERATURE:	NE
DECOMPOSITION TEMPERATURE:	NE
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:	None known
HAZARDOUS POLYMERIZATION:	Does not occur
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition products may include hydrogen chloride, hydrogen fluoride, carbon monoxide, and carbon dioxide and combustion by products as well as: Tetrafluoroethylene (Above 800°F) Hexafluoropropylene (Above 825°F) Perfluoroisobutylene (Above 885°F) Carbonyl Fluoride (Above 930°F)

## 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS:	IARC Group 3 Carcinogen (Not classifiable as to carcinogenicity to humans.)
ACUTE/CHRONIC:	NA
REPRODUCTIVE HAZARDS:	NA

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY:	NA
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## 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL:	
ENVIRONMENTAL TOXICITY DATA:	NE
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:	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 ( <i>Toxic Substances Control Act</i> ):	All materials are listed or exempt from TSCA listing.
CERCLA ( <i>Comprehensive Emergency Response, Compensation, and Liability Act</i> ):	NA
SARA TITLE III ( <i>Superfund Amendments and Reauthorization Act</i> ):	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:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
7429-90-5	Aluminum	Varies
7440-50-4	Copper	Varies

## 16. OTHER INFORMATION

NA = Not Applicable	FILE:	99041-RT Duroid 6002-01112021
NE = Not Established		
NC = Not Classified	PREPARED BY:	EHS Department
Date Prepared: 01/11/2021	REVIEWED BY:	EHS Engineering

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