

# **PRODUCT SAFETY INFORMATION SHEET**

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

TRADE NAME:	IsoClad® Series Laminates
CHEMICAL FAMILY:	Polytetrafluoroethylene Composite
HMIS RATING:	H 1 F 1 R 0
USE OF ARTICLE	Printed Circuit Boards
DATE ISSUED:	August 23, 2021
COMPANY/UNDERTAKING IDENTIFICATION:	Rogers Corporation 1100 Governor Lea Rd Bear, DE 19701 Phone: 001-800-635-9333 Fax: 001-302-834-2940 Email: msdsinfo@rogerscorporation.com
HAZARDS IDENTIFICATION	

CLASSIFICATION OF THE MATERIAL:	NE
LABELING REQUIREMENTS:	NE
EFFECTS OF OVEREXPOSURE:	None are expected with normal handling. Cutting and other finishing operations may create dust. Ventilation and personnel protection should be similar to all operations generating nuisance dust. Processing material at temperatures exceeding decomposition temperature may release toxic fumes.
INHALATION:	Dust may cause respiratory irritation. Remove to fresh air and seek medical attention if necessary. Exposure to copper fume or PTFE decomposition products may cause symptoms of metal of Polymer Fume Fever. This is characterized by flu like symptoms (fever, chills, muscle aches) that last 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:	NE

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

2.

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	<u>CAS No.</u>	<u>EINECS</u> /ELINCS	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Polytetrafluoroethylene	9002-84-0	204-126-9	Varies	NE	NE
Fiberglass	65997-17-3	266-046-0	Varies	5 mg/m <sup>3</sup> (Resp. Dust)	1 f/cc (Resp. Fibers)
Copper Foil (Dust)	7440-50-8	231-159-6	Varies	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

# 4. FIRST-AID MEASURES

	INHALATION:	Remove to fresh air. Obtain medical attention if symptoms persist.
	EYE CONTACT:	Flush eyes with large amounts of water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
	SKIN CONTACT:	Immediately take off all contaminated clothing and flush area with water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
	INGESTION:	NA
5.	FIRE-FIGHTING MEASURES	
	FLASH POINT: AUTOIGNITION TEMPERATURE:	NE °C (°F) Flammable Limits: LEL <u>NA</u> UEL <u>NA</u> NE °C (°F)
	EXTINGUISHING MEDIA:	X Water Spray X Foam X CO <sub>2</sub> X Dry Chemical X Other –
	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 MEA	SURES
	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 eyes.
		Drevent from entering sower system, surface water, or soil

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

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	None needed under normal conditions. If material is heated and odors are noticeable and/or irritating a respirator, meeting NIOSH requirements, should be used. A qualified individual should evaluate each situation.
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
OTHER:	Safety shower/eyewash in the area.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT:327FREEZING POINT:NA °FLASH POINT:NE °WATER SOLUBILITY:In-SeVAPOR DENSITY:NAVAPOR PRESSURE:NASPECIFIC GRAVITY:2.3 (PARTITION COEFFICIENT:NAEVAPORATION RATE:NARELATIVE DENSITY:NAVISCOSITY:NAAUTO-IGNITION TEMPERATURE:NA °	id °C (°F) °C (°F) °C (°F) °C (°F) Soluble (Water = 1) °C (°F) °C (°F)
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#### 10. STABILITY AND REACTIVITY

STABLE X UNSTABLE

CONDITIONS TO AVOID:

PTFE begins to decompose above 500°F and increases rapidly above 750°F. Processing at these temperatures for prolonged periods of time is not recommended. MATERIALS TO AVOID: NE HAZARDOUS POLYMERIZATION: Х May Occur Does Not Occur Decomposition may emit hydrofluoric acid, tetrafluoroethylene, HAZARDOUS DECOMPOSITION PRODUCTS: hexafluoropropylene, perfluoroisobutylene, and carbonyl fluoride.

# 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS:	Fiberglass (continuous filament): IARC Group 3 (unclassifiable as to carcinogenicity to humans).
ACUTE/CHRONIC:	NE
REPRODUCTIVE HAZARDS:	NE

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### 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES None AFFECTING DISPOSAL: ENVIRONMENTAL TOXICITY DATA: NE WASTE DISPOSAL METHOD: Dispo

NE Dispose of in accordance with applicable federal, state, provincial, and local laws and regulations.

### 14. TRANSPORT INFORMATION

UN NUMBER:Not RegulatedUN PROPER SHIPPING NAME:Not RegulatedHAZARD CLASS (ES):Not RegulatedPACKING GROUP:Not RegulatedENVIRONMENTAL 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
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

NE

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
7440-50-4	Copper	Varies

# 16. OTHER INFORMATION

NA = Not Applicable	FILE: 99379 - IsoClad Series Laminates - 08232021
NE = Not Established	
NC = Not Classified	PREPARED BY: Corporate EHS
Date Prepared: 08/23/2021	REVIEWED BY: EHS Engineering

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