

## PRODUCT SAFETY INFORMATION SHEET

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

TRADE NAME: CLTE Series™ Laminates

CHEMICAL FAMILY: Polytetrafluoroethylene Composite

HMIS RATING: H 1 F 1 R 0

USE OF ARTICLE Printed Circuit Boards

DATE ISSUED: May 30, 2023

COMPANY/UNDERTAKING Rogers Corporation IDENTIFICATION: 1100 Governor Lea Rd

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### 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE

MATERIAL:

ΝE

LABELING REQUIREMENTS: N

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

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>

CAS No. <u>EINECS</u> <u>%</u> <u>OSHA PEL</u> <u>ACGIH TLV</u>

/ELINCS

Polytetrafluoroethylene	9002-84-0	204-126-9	Varies	NE	NE
Fiberglass	65997-17-3	266-046-0	Varies	5 mg/m³ (Resp. Dust)	1 f/cc (Resp. Fibers)
Amorphous Silica	60676-86-0	262-373-8	Varies	5 mg/m³ (Resp. Dust)	3 mg/m³ (Resp. Dust)
Ceramic Filler (Nuisance Dust)	NA	NA	Varies	` 15 mg/m³ <sup>′</sup> (Total Dust)	10 mg/m³ (Total Dust)
Copper Foil (Dust)	7440-50-8	231-159-6	Varies	` 1 mg/m³ <sup>′</sup>	`1 mg/m³ <sup>′</sup>

#### **FIRST-AID MEASURES** 4.

**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

NE °C (°F) FLASH POINT: Flammable Limits: LEL NA UEL NA

NE °C (°F) **AUTOIGNITION TEMPERATURE:** 

**EXTINGUISHING MEDIA:** Foam X CO<sub>2</sub> Other – Water Spray

Dry Chemical X

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**

In case of fire, toxic fumes are emitted. Wear suitable protective equipment. Do PERSONAL PRECAUTIONS:

not breathe dust. Eliminate sources of ignition. Avoid contact with skin and

**ENVIRONMENTAL PRECAUTIONS:** 

**CLEANING METHODS:** 

Prevent from entering sewer system, surface water, or soil.

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.

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

#### 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

APPEARANCE: Sheet or board (various colors); may be clad with copper.

None ODOR: PHYSICAL STATE: Solid **BOILING POINT:** NA °C (°F) **MELTING POINT:** 327 °C (°F) FREEZING POINT: NA °C (°F) NE °C (°F) FLASH POINT: WATER SOLUBILITY: In-Soluble VAPOR DENSITY: NA

VAPOR DENSITY: NA VAPOR PRESSURE: NA

SPECIFIC GRAVITY: NA (Water = 1)

PARTITION COEFFICIENT:

EVAPORATION RATE:

RELATIVE DENSITY:

VISCOSITY:

AUTO-IGNITION TEMPERATURE:

NA

AUTO-IGNITION TEMPERATURE: NA  $^{\circ}$ C ( $^{\circ}$ F) DECOMPOSITION TEMPERATURE: NA  $^{\circ}$ C ( $^{\circ}$ F) PH: NA

FLAMMABILITY: NA

### 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:

HAZARDOUS DECOMPOSITION

Decomposition may emit hydrofluoric acid, tetrafluoroethylene, hexafluoropropylene, perfluroisobutylene, 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

#### 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NE

#### 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES

None

NE

AFFECTING DISPOSAL:

**ENVIRONMENTAL TOXICITY DATA:** 

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):

Korea (KECI):

Japan (ENCS, MITI):

China (IECSC)

Article - exempt
Article - exempt
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

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 #<br/>7440-50-4CHEMICAL NAME<br/>CopperPERCENT BY WEIGHT<br/>Varies

#### 16. OTHER INFORMATION

NA = Not Applicable FILE: 99373-CLTE Series-05302023

NE = Not Established

NC = Not Classified PREPARED BY: Corporate EHS
Date Prepared: 05/30/2023 REVIEWED BY: EHS Engineering

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