



# PRODUCT SAFETY INFORMATION SHEET

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

TRADE NAME: CuClad® 6250 Bonding Film

CHEMICAL FAMILY: Proprietary Thermoplastic Film

HMIS RATING: H 1 F 1 R 0

USE OF ARTICLE: Bonding Stripline Circuitry

DATE ISSUED: October 2, 2015

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

## 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NE

LABELING REQUIREMENTS: NE

EFFECTS OF OVEREXPOSURE: None expected with normal handling. Processing material at temperatures exceeding decomposition temperature may release toxic fumes.

INHALATION: No hazards resulting from the material as supplied.

EYE CONTACT: No hazards resulting from the material as supplied. Flush eyes with water and seek medical attention if necessary.

SKIN CONTACT: No hazards resulting from the material as supplied.

INGESTION: No hazards resulting from the material as supplied.

CHRONIC: NE

## 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 /ELINCS</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Thermoplastic film	Proprietary		100	NA	NA

#### 4. FIRST-AID MEASURES

INHALATION:	Film dusts resulting from processing operations could causes respiratory irritation. Remove to fresh air. Obtain medical attention if symptoms persist.
EYE CONTACT:	Contact with dust may causes irritation or corneal injury due to mechanical action. 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:	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 <sub>2</sub>
	<u>X</u>	Dry Chemical	<u>X</u>	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. In case of fire, hazardous decomposition products that may be produced may include, but are not limited to, aldehydes, alcohols, hydrogen chloride, and organic acids.					
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 eyes.
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.
<u>VENTILATION</u>	
LOCAL:	Recommended for all industrial operations.
GENERAL:	Recommended for all industrial operations.
<u>PERSONAL PROTECTION</u>	
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: Clear film  
ODOR: None  
PHYSICAL STATE: Solid  
BOILING POINT: NA °C (°F)  
MELTING POINT: 102 °C  
FREEZING POINT: NA °C (°F)  
FLASH POINT: NE °C (°F)  
WATER SOLUBILITY: In-Soluble  
VAPOR DENSITY: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: NA (Water = 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  UNSTABLE

CONDITIONS TO AVOID: Heat, flames, and sparks. Keep away from direct sunlight. Avoid exposure to temperatures exceeding recommended processing conditions.  
MATERIALS TO AVOID: Incompatible with aromatic amines, aromatic hydrocarbons, and halogenated hydrocarbons.  
HAZARDOUS POLYMERIZATION:  May Occur  Does Not Occur  
HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products that may be produced may include, but are not limited to, aldehydes, alcohols, hydrogen chloride, and organic acids.

## 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: NE  
ACUTE/CHRONIC: NE  
REPRODUCTIVE HAZARDS: NE

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NE

## 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL: None  
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  
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>
NA	NA	NA

#### 16. OTHER INFORMATION

NA = Not Applicable FILE: 99376-CuClad 6250 Bonding Film-10022015

**NE = Not Established**

NC = Not Classified PREPARED BY: Rebecca Agapov

Date Prepared: 10/02/2015 REVIEWED BY: Curtis Kempton

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULT TO BE OBTAINED FROM THE USE THEREOF.

ROGERS CORPORATION ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.