



One Technology Drive/ P.O. Box 188 /Rogers, CT 06263-0188 / 860.774.9605

PRODUCT SAFETY INFORMATION SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: SYRON™ High Performance Circuit Materials

CHEMICAL FAMILY: Laminate Material

HMIS RATING: H 1 F 1 R 0

USE OF MATERIAL: Circuit Material

EMERGENCY PHONE: 860-774-9605 (Monday – Friday 8 a.m. – 5 p.m. EST)

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: Not classified under GHS as hazardous under 1999/45/EC.

LABELING REQUIREMENTS: None

EFFECTS OF OVEREXPOSURE: None are expected with normal handling. Machining may cause the following:

INHALATION: Dusts may cause respiratory irritation. Copper fumes may cause metal fume fever with flu-like symptoms that usually subside after 24 hours.

EYE CONTACT: Dusts may cause irritation.

SKIN CONTACT: Dusts may cause irritation. Molten material may cause burns.

INGESTION: Not a likely route of exposure. If ingested, seek medical attention.

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>	<u>China OEL</u>	<u>EU Classification</u>
Polymer	Proprietary	Proprietary	15-70	NE	NE	NE	NC according to 67/548/EEC
Aluminum	7429-90-5	231-072-3	25-70	5 mg/m ³ (Resp.)	10 mg/m ³ (Resp.)	3 mg/m ³ (Resp.)	NC according to 67/548/EEC
Copper	7440-50-8	231-159-6	25-70	1 mg/m ³	1 mg/m ³	1 mg/m ³	“
Glass Fiber (continuous filament)	65997-17-3	266-046-0	0-20	5 mg/m ³ (Resp.)	3 mg/m ³ (Resp.)	3 mg/m ³ (Resp.)	“

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:	If hot or molten material contacts skin, cool rapidly with cold water. If stuck to skin, do not remove. Obtain medical attention and allow polymer to come off naturally. Removal of adhered polymer may result in more tissue damage.
INGESTION:	Not a likely route of exposure. Low toxicity is expected. Obtain medical attention if symptoms persist.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	NA	Flammable Limits:	LEL	NA	UEL	NA
AUTOIGNITION TEMPERATURE:	595°C (Polymer)					
EXTINGUISHING MEDIA:	<input checked="" type="checkbox"/> Water Spray <input checked="" type="checkbox"/> Dry Chemical	<input checked="" type="checkbox"/> Foam Other –	<input checked="" type="checkbox"/> CO ₂			
SPECIAL FIRE FIGHTING PROCEDURES:	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:	Wear suitable protective equipment. Do not breathe dust.
ENVIRONMENTAL PRECAUTIONS:	Prevent from entering sewer system, surface water or soil.
CLEANING METHODS:	Sweep or vacuum dust for disposal.

7. HANDLING AND STORAGE

HANDLING:	Wear suitable protective equipment (refer to Section 8). Wash hands with soap and water after handling.
STORAGE:	Keep container tightly closed in a cool, well-ventilated area.

8. ENGINEERING 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. If heating, required.
GENERAL:	Recommended for all industrial operations.
<u>PERSONAL PROTECTION</u>	
HAND:	Heavy Rubber Gloves
EYE:	Safety glasses with side shields.
OTHER:	Safety shower/eyewash in the area if possible tissue exposure to materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Film, off-white or grey
ODOR:	None
PHYSICAL STATE:	Solid
BOILING POINT:	NA
MELTING POINT:	343 °C (Polymer)
FREEZING POINT:	NA
FLASH POINT:	°C (°F)
WATER SOLUBILITY:	Insoluble
VAPOR DENSITY:	NA
VAPOR PRESSURE:	NA
SPECIFIC GRAVITY:	NE (Water = 1)
PARTITION COEFFICIENT:	NA
EVAPORATION RATE:	NA
RELATIVE DENSITY:	NE
VISCOSITY:	NA
AUTO-IGNITION TEMPERATURE:	595°C (Polymer)
DECOMPOSITION TEMPERATURE:	NA
PH:	NA
FLAMMABILITY:	Product may burn.

10. STABILITY AND REACTIVITY

STABLE	<input checked="" type="checkbox"/>	UNSTABLE	<input type="checkbox"/>
MATERIALS TO AVOID:	<input type="checkbox"/>	NE	<input type="checkbox"/>
HAZARDOUS POLYMERIZATION:	<input type="checkbox"/>	May Occur	<input checked="" type="checkbox"/>
HAZARDOUS DECOMPOSITION PRODUCTS:	<input type="checkbox"/>	Carbon Monoxide, Carbon Dioxide, and hydrocarbons	Does Not Occur

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS:	NA
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12. ECOLOGICAL INFORMATION

NA

13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL:	None
ENVIRONMENTAL TOXICITY DATA:	NA
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:	Not Regulated

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:

Canadian (DSL/NDSL): NE
Australian (ACIS): NE
Korea (KECI): NE
Japan (ENCS, MITI): NE
China (IECSC) Article
EU Directive 2011/65/EC (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.

European:

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

R-Phase(s):

S-Phase(s):

TSCA
(*Toxic Substances Control Act*): All materials are listed or exempt from TSCA listing.

CERCLA

(*Comprehensive Emergency Response, Compensation, and Liability Act*): NA

SARA TITLE III

(*Superfund Amendments and Reauthorization Act*): 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>
NA	NA	NA

16. OTHER INFORMATION

NA = Not Applicable

FILE: 99225-Syron-03132015

NE = Not Established

PREPARED BY: Michal Werbecki

NC = Not Classified

DATE REVISED: March 13, 2015

REVISION ITEMS & DATE:

- Section 9, Water Solubility, 9/18/09
- Section 1, Trade Name, 11/10/10
- Heading, MSDS Changed to PSIS, 11/16/12
- Remove Update citations, remove emergency number – 3/13/2015

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