



MATERIAL SAFETY DATA SHEET

SOPRA-FLASH R

HMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS								
<table border="1"> <tr> <td>0</td> <td>HEALTH</td> </tr> <tr> <td>1</td> <td>FLAMMABILITY</td> </tr> <tr> <td>0</td> <td>REACTIVITY</td> </tr> <tr> <td></td> <td>PROTECTIVE EQUIPMENT</td> </tr> </table>	0	HEALTH	1	FLAMMABILITY	0	REACTIVITY		PROTECTIVE EQUIPMENT		NOT REGULATED
0	HEALTH									
1	FLAMMABILITY									
0	REACTIVITY									
	PROTECTIVE EQUIPMENT									

SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name:	Sopra-Flash R
Use:	Polyester reinforcement
Manufacturer:	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES
Distributor:	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES
In case of emergency:	SOPREMA (8:00am to 5:00pm - Eastern time): (800) 356-3521 CHEMTREC (USA) (24h.): (800) 424-9300 CANUTEC (Canada): (613) 996-6666 International: (703) 527-3887

SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS

Component	Formula	Composition information
Polyester/Polyamide	$(C_{10}H_8O_4)_n / (C_6H_{11}NO)_n$	Polyethylene Terephthalate/Polycaprolactam >99%

SECTION III. POTENTIAL HEALTH EFFECTS

HEALTH HAZARD SUMMARY: No adverse health effects have been reported in the processing and use of Sopra-Flash R fabrics provided that the workplace is adequately ventilated and normal safety and industrial hygiene practices are followed. Under certain circumstances, potential hazards may result from the processing of this product. If airborne dust is generated in processing, exposure should be maintained below 10 mg/m³ as an eight-hour, time weighted average (TWA). Contact with heated or molten material can cause thermal burns.

SECTION IV. FIRST AID MEASURES	
EYES	Treat as nuisance dust hazard. Flush eyes with water for 15 minutes. If irritation persists, obtain medical attention.
SKIN	Prolonged contact may cause minor irritation. If irritation persists, obtain medical attention. Seek medical attention for thermal burns.
INHALATION	as nuisance dust hazard. If irritation persists, obtain medical attention.
INGESTION	No special precautions necessary.

SECTION V. FIRE-FIGHTING MEASURES	
AUTO-IGNITION TEMPERATURE	Approx. 508°C (polyethylene terephthalate) / 350°C (polycaprolactam)
FLAMMABLE LIMITS	LEL - not applicable; UEL - not applicable
EXTINGUISHING MEDIA	Water mist, dry chemical CO ₂
UNUSUAL FIRE HAZARDS	Thermal degradation can yield hydrogen cyanide, carbon monoxide, carbon dioxide, and ammonia. Firefighters should use self-contained breathing apparatus.

SECTION VI. ACCIDENTAL RELEASE MEASURES	
Not applicable	

SECTION VII. HANDLING AND STORAGE	
Avoid dust accumulation. Store boxes and rolls in accordance with good warehouse practices.	

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION	
PRIMARY ROUTES OF EXPOSURE: Skin Contact, Inhalation EXPOSURE LIMITS: OSHA PEL: 15 mg/m ³ (total) TWA (Nuisance Dust): 5 mg/ m ³ (respirable) TWA ACGIH TLV: 10 mg/ m ³ (total) TWA	
RESPIRATORY	None normally required. Use NIOSH – approved dust mask if PEL for nuisance is exceeded.
ENGINEERING CONTROLS	No special precautions required. Local and general exhaust ventilation should be used as needed to prevent irritation and avoid dust accumulation.
OTHER PROTECTIVE EQUIPMENT	wash station and safety shower should be near work area.
EYE PROTECTION	None normally required; however, good safety and industrial hygiene practices should be followed.
SKIN PROTECTION	None normally required; however, good safety and industrial hygiene practices should be followed. Protective clothing should be constructed of heavy rubber or similar materials for protection against molten material contact.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES	
BOILING POINT	Not applicable
APPEARANCE & ODOR	Uncured black rubber - characteristic odor
SPECIFIC GRAVITY	1.38 (polyethylene terephthalate) / 1.13 (polycaprolactam)
WATER SOLUBILITY	Negligible
MELTING POINT	Approx. 258°C (polyethylene terephthalate) / approx. 220°C (polycaprolactam)
VAPOR PRESSURE & DENSITY	Not applicable
MOLECULAR WEIGHT	(192.16) _n / (113.16) _n
APPEARANCE & ODOR	White, light grey, or black fiber/fabric with essentially no odor

SECTION X. STABILITY AND REACTIVITY

STABILITY:

Stable

INCOMPATIBILITY:

Excessive heat > 220°C and ignition sources

CONDITIONS TO AVOID:

None known.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

Sopra-Flash R polyethylene terephthalate/polycaprolactam fabric is composed of two solid organic polymers. There are no known physical or health hazards associated with the use of this product.

SECTION XII. ECOLOGICAL INFORMATION

None known.

SECTION XIII. DISPOSAL CONSIDERATIONS

Landfill or incineration. Comply with local, state, and federal regulations for non-hazardous solid waste.

SECTION XIV. TRANSPORTATION INFORMATION

US DOT Information

Shipping Name: Not Regulated.

TDG Information

Shipping Name: Not Regulated.

SECTION XV. REGULATORY INFORMATION

Sopra-Flash R is defined as "articles" under Section 1910.1200 c of the OSHA Hazard Communication Standard and are considered non-hazardous in accordance with Appendices A & B.

SECTION XVI. OTHER INFORMATION

Glossary:

ACGIH: American Conference of Governmental Industrial Hygienists

ANSI: American National Standards Institute

ASTM: American Society for Testing and Materials

CAS: Chemical Abstract Services

CFR: Code of Federal Regulations (United States)

CSA: Canadian Standardisation Association

DOT: Department of Transportation (United States)

DSL: Domestic Substances List (Canada)

EPA: Environmental Protection Agency (United States)

HMIS: Hazardous Material Information System

IARC: International Agency for Research on Cancer

LC50: (Lethal concentration₅₀) Concentration of a substance in air that causes death of 50% mortality of a defined animal population

LD50: (Lethal dose₅₀) Single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause the death of 50% of a defined animal population.

NFPA: National Fire Protection Association (United States)

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety & Health Administration (United States)

PEL: Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act (United States)

RTECS: Registry of Toxic Effects of Chemical Substances

SECTION XVI. OTHER INFORMATION

Glossary:

TDG: Transportation of Dangerous Goods

TLV: Threshold Limit Value

TWA: Time-weighted average

TSCA: Toxic Substances Control Act (United States)

WHMIS: Workplace Hazardous Materials Information System (Canada)

Reference:

Supplier MSDS

This MSDS has been prepared by: SOPREMA, INC.

For information: 800-543-3085

The Material Safety Data Sheets of SOPREMA are available on Internet at the following site: [HTTP://WWW.SOPREMA.US](http://www.soprema.us)

Justification of the update:

New MSDS.

This MSDS contains all the information required by ANSI Z-400.1-1998 standard (United States), by regulation 29 CFR Part 1910.1200 of the Hazard Communication Standard of OSHA, and is in accordance with standard DORS/88-66 OF WHMIS Canada.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.