



# MATERIAL SAFETY DATA SHEET

## SOPRA-FLASH UN

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

### SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product name:</b>	Sopra-Flash UN
<b>Use:</b>	Lap and flashing adhesive
<b>Manufacturer:</b>	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES
<b>Distributor:</b>	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES
<b>In case of emergency:</b>	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

### EMERGENCY OVERVIEW!!!

**Processing fumes may cause adverse health effects. Avoid inhalation of fumes, use with adequate ventilation. Maintain good personal hygiene when working with rubber compounds. Change soiled clothing regularly. Wash hands and other exposed skin surface thoroughly at all breaks and at the end of the work shift.**

### SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS

Component	Approx. #	OSHA/PEL	ACGIH/TLV	Additional Notes
Carbon black	35.83	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	not applicable
Ethylene thiourea	.22	not established	not established	not established
Zinc oxide	1.7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Nuisance dust
Precipitated silica	6.82	not applicable	10 mg/m <sup>3</sup>	not applicable

**SECTION III. POTENTIAL HEALTH EFFECTS****PRIMARY ROUTES OF ENTRY: INHALATION (\*) SKIN (\*) INGESTION ( )**

\*During hot processing e.g., extruding, curing, milling, etc.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** No applicable information available.

**ACUTE HEALTH HAZARDS AND EXPOSURE SYMPTOMS:** None known or expected. Ingredients bound to rubber so inhalation exposure during handling not a problem. Exposure to volatiles released during hot processing such as curing may cause respiratory, nose or eye irritation in some people.

**CHRONIC HEALTH HAZARDS AND EXPOSURE SYMPTOMS:** Long term inhalation exposure to concentrated hot processing fumes has been reported to reduce lung function and cause chronic bronchitis.

**CARCINOGENICITY:** Ethylene Thiourea (ETU) has been shown to be a carcinogen and teratogen in experimental animals. Exposure to ETU from this product is unlikely.

**SECTION IV. FIRST AID MEASURES**

<b>SKIN</b>	Compound-related effects not expected to require first aid. If any irritation develops or persists, see a physician.
<b>INHALATION</b>	Not expected to be compound-related effect. Remove to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. If breathing difficult, give oxygen. Call a physician at once.
<b>INGESTION</b>	Compound-related effects not expected. If ingested, treat symptoms.

**SECTION V. FIRE-FIGHTING MEASURES**

<b>FLASH POINT</b>	Not determined
<b>FLAMMABLE LIMITS</b>	LEL - not applicable; UEL - not applicable
<b>EXTINGUISHING MEDIA</b>	Water, foam, dry powder
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Firefighters to wear self-contained breathing apparatus.
<b>UNUSUAL FIRE AND EXPLOSION HAZARD</b>	Product does not present explosion hazard.

**SECTION VI. ACCIDENTAL RELEASE MEASURES**

Sweep up spilled material. Reclaim for processing if possible.

**SECTION VII. HANDLING AND STORAGE**

Avoid dust accumulation. Store boxes and rolls in accordance with good warehouse practices.

**SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>RESPIRATORY</b>	Not normally needed for routine handling. If curing fumes are a problem, a NIOSH approved air purifying respirator with HEPA filters may be used. Select and use respirators in accordance with OSHA 1910.134 and the respirator manufacturer.
<b>ENGINEERING CONTROLS</b>	Good manufacturing practice demands that inhalation of fumes and volatiles from further hot processing of rubber compounds must be avoided. Exhaust ventilation is usually necessary for operations which produce fumes, such as extrusion, curing, etc. Provide effective exhaust ventilation at all operations capable of producing fumes to prevent routine inhalation.
<b>OTHER PROTECTIVE EQUIPMENT</b>	Gloves are needed when handling hot rubber to prevent burns.
<b>WORK AND HYGIENE PRACTICES</b>	Maintain good personal hygiene when working with rubber compounds. Change soiled clothing regularly. Wash hands and other exposed skin surfaces thoroughly at all breaks and at the end of the work shift.

**SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT</b>	Not applicable
<b>APPEARANCE &amp; ODOR</b>	Uncured black rubber - characteristic odor
<b>SPECIFIC GRAVITY</b>	1.30
<b>WATER SOLUBILITY</b>	Not soluble

## SECTION X. STABILITY AND REACTIVITY

**STABILITY:**

Stable

**INCOMPATIBILITY:**

No known materials to avoid.

**HAZARDOUS DECOMPOSITION:**

Typical products could include carbon monoxide, carbon dioxide, sulfur oxides and hydrocarbons.

**CONDITIONS TO AVOID:**

None known.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

Will not occur.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

## SECTION XI. TOXICOLOGICAL INFORMATION

Classes of materials called nitrosamines are carcinogens in animals and therefore are suspected of causing cancer in humans. Because many rubber materials contain amine based ingredients, trace residual amounts (well below 0.1%) of nitrosamine are likely to exist in most rubber compounds as a result of being formed in earlier processing steps.

Subjecting this product to certain processing steps can form higher amounts of nitrosamines which are believed to present a health hazard. Avoid mixing or exposing this product with: nitrates, nitrites, nitrogen oxides or other nitrosamines as potentially hazardous levels of nitrosamines will be formed. Salt bath curing (using nitrate/nitrite sales) can be expected to produce hazardous amounts of volatile nitrosamines. Emissions from such processes must be exhausted.

Employees must avoid inhaling fumes from hot rubber processing.

## 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

None known.

## 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

## SECTION XVI. OTHER INFORMATION

### Glossary:

LC50: (Lethal concentration<sub>50</sub>) Concentration of a substance in air that causes death of 50% mortality of a defined animal population

LD50: (Lethal dose<sub>50</sub>) 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

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.

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