



MATERIAL SAFETY DATA SHEET

SOPRASTAR CHIPS

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

SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name:	Soprastar Chips
Product number:	L-A160
Use:	Soprastar membrane bleedout cover
Manufacturer:	Soprema USA 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	CAS#	% by weight	ACGIH TLV	OSHA PEL
Barium sulfate *	7727-43-7	70 - 85	10 mg/m ³	10 ppm
Titanium dioxide *	13463-67-7	0 - 10	n/a	n/a
Proprietary resin *	not established	10 - 15	n/a	n/a
Pigment(s) *	n/a	< 3	n/a	n/a

* No toxic chemical(s) subject to reporting requirements of section 313 of Title III and CFR 372 are present.

SECTION III. POTENTIAL HEALTH EFFECTS

Inhalation Health Risks and Symptoms of Exposure

Mild bronchial irritation may occur.

Skin and Eye Contact Health Risks and Symptoms of Exposure

This substance is not expected to cause prolonged or significant skin or eye irritation.

Skin Absorption Health Risks and Symptoms of Exposure

May cause irritation.

Ingestion Health Risks and Symptoms of Exposure

Large quantities may cause irritation to the mouth, throat and gastrointestinal tract resulting in nausea and vomiting.

Health Hazards (Acute and Chronic)

Acute Effects: Causes mechanical skin and eye irritation.

Chronic Effects: Heavy extended industrial exposure to the dust of this product may produce benign pneumoconiosis, termed "baritosis". Mild bronchial irritation may occur.

Carcinogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

Not listed with NTP, IARC or OSHA as a know or suspected carcinogen.

Medical Conditions Generally Aggravated by Exposure

Individuals with pulmonary and/or respiratory disease or subject to eye irritation, should be precluded from exposure.

SECTION IV. FIRST AID MEASURES

SKIN	Wash dust from skin with soap and water.
EYES	Flush eyes out with generous amounts of water for at least 15 minutes. See a physician.

SECTION V. FIRE-FIGHTING MEASURES

Flash point	n/a
Flammable limits	n/a
Extinguishing media	n/a
Special fire fighting procedures	n/a
Unusual fire and explosion hazards	None

* No known fire hazards present.

SECTION VI. ACCIDENTAL RELEASE MEASURES

Steps to Be Taken in Case Material Is Released or Spilled

Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended.

SECTION VII. HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing

Take normal precautions against box/bag breakage or spills of bulk material. Avoid creation of respirable dust.

Other Precautions

Use adequate ventilation and dust collection. Do not permit dust to accumulate in work area. Maintain and use proper and clean respiratory equipment. Clean clothing which has become contaminated.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

HANDS	Leather or rubber gloves.
RESPIRATORY	Use of dust respirator recommended when exposure limits may be exceeded.
EYES	N/A
VENTILATION	Local exhaust ventilation to collector or containment recommended to control dust below exposure limit.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	As appropriate in light of specific application.
WORK/HYGENIC PRACTICES	Good industrial hygiene practices required. Adequate ventilation and personal respiratory protection should be employed.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Vinyl chips
COLOR	White
ODOR	Odorless
VAPOR DENSITY	Not volatile
COATING V.O.C.	Not volatile
BOILING POINT	n/a
MATERIAL V.O.C.	Not volatile
SPECIFIC GRAVITY (H₂O = 1)	3.6
SOLUBILITY IN WATER	Insoluble
MELTING POINT	n/a
EVAPORATION	n/a

SECTION X. STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: None
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Product is stable but decomposes at 600° liberating CO ₂

SECTION XI. TOXICOLOGICAL INFORMATION

inhalation Health Risks and Symptoms of Exposure Mild bronchial irritation may occur.
Skin and Eye Contact Health Risks and Symptoms of Exposure This substance is not expected to cause prolonged or significant skin or eye irritation.
Skin Absorption Health Risks and Symptoms of Exposure May cause irritation.
Ingestion Health Risks and Symptoms of Exposure Large quantities may cause irritation to the mouth, throat and gastrointestinal tract resulting in nausea and vomiting.

SECTION XI. TOXICOLOGICAL INFORMATION continued

Carcinogenicity:

NPT? No

IARC Monographs? No

OSHA Regulated? No

Not listed with NTP, IARC or OSHA as a know or suspected carcinogen.

Medical Conditions Generally Aggravated by Exposure

Individuals with pulmonary and/or respiratory disease or subject to eye irritation, should be precluded from exposure.

SECTION XII. ECOLOGICAL INFORMATION

Environmental effects:

None

SECTION XIII. DISPOSAL CONSIDERATIONS

Waste disposal:

Disposal must be made in accordance with Federal, State or Local regulations.

SECTION XIV. TRANSPORTATION INFORMATION

Not regulated

SECTION XV. REGULATORY INFORMATION

None

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 dead of 50% mortality of a defined animal population

LD50: (Lethal dose₅₀) Single dose of a substance that, when administrated by a define 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)

SECTION XVI. OTHER INFORMATION

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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