

# MATERIAL SAFETY DATA SHEET

## SEETEC SB 1712

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>SUBSTANCE:</b>	Styrene-butadiene Copolymer, oil-extended Rubber		
<b>MSDS NO:</b>	HPC - 776		
COMPANY IDENTIFICATION			
<b>COMPANY:</b>	Hyundai Petrochemical Co., LTD.		
<b>ADDRESS:</b>	679, DAEJUK-RI, DAESAN-UP, SEOSAN-CITY, CHUNGCHONGNAM-DO, KOREA		
<b>EMERGENCY TELEPHONE NO</b>	82-041-661-1869		
<b>PLANT:</b>	Synthetic Rubber production	<b>CAS NUMBER:</b>	9003-55-8 (for polymer)
<b>CREATION DATE:</b>	01/08/03	<b>REVISION NUM':</b>	0

### SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

<b>COMPONENT:</b>	Styrene-butadiene Copolymer, oil-extended
<b>TRADE NAMES/ SYNONYMS:</b>	SEETEC SB 1712 / SBR, oil-extended
<b>CHEMICAL FAMILY:</b>	Aromatic oil
<b>CAS NUMBER:</b>	64742-10-5
<b>PERCENTAGE (%):</b>	25.8-28.8 [ACGIH (TLV-TWA):5mg/M3M* , OSHA(PEL-TWA):5mg/M3M]

\*) M=mist

### SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4)

HEALTH	FIRE	REACTIVITY
1	1	0

Hazard Rating : 0=Insignificant, 1=Slight, 2=Moderate, 3=High, 4=Extreme

**EMERGENCY OVERVIEW:** If ignited by excessive heat or open flame, the product will burn. During fire conditions fumes are irritating to eyes and respiratory tract.

**CHANGE IN APPEARANCE:** Solid

**COLOR:** Dark brown

**PHYSICAL FORM:** Flammable polymer

**ODOR:** Slight

**MAJOR HEALTH HAZARDS:** NE

#### **POTENTIAL HEALTH EFFECTS**

**INHALATION:**

**SHORT TERM EFFECTS:** NE

**LONG TERM EFFECTS:** NE

**SKIN CONTACT:**

**SHORT TERM EFFECTS:** Fumes generated during processing may be irritating to the eyes and respiratory system.

**LONG TERM EFFECTS:** The processing oils in the stock could be released from the surface through skin contact. Prolonged contact with untreated naphthenic / paraffinic and aromatics oils caused skin cancer in laboratory animals, when applied over a two-year period. Some epidemiology studies have shown an excess in cancer rate for workers exposed to unrefined mineral oils. Untreated naphthenic / paraffinic and aromatics oils are classified as carcinogenic to humans by IARC.

**EYE CONTACT:**

**SHORT TERM EFFECTS:** NE

**LONG TERM EFFECTS:** NE

**INGESTION:**

**SHORT TERM EFFECTS:** NE

**LONG TERM EFFECTS:** NE

**CARCINOGEN STATUS:**

OSHA: NE

NTP: NE

IARC: NE

NA: Not Applicable    NE: Not Established

#### **SECTION 4    FIRST AID MEASURES**

**GENERAL FIRST AID:** No procedures are expected to be required for handling of rubber stock.

**INHALATION:** If overcome by exposure, remove victim to fresh air.

**SKIN CONTACT:** NE

**EYE CONTACT:** For irritation, flush eyes with copious amounts of water.

**INGESTION:** NE

**NOTE TO PHYSICIAN:** NE

#### **SECTION 5    FIRE FIGHTING MEASURES**

**FLASH POINT:**NA

**AUTOIGNITION:** NE

**LOWER FLAMMABLE LIMIT:**NA

**UPPER FLAMMABLE LIMIT:**NA

**FLAMMABILITY CLASS (OSHA):** NE

**EXTINGUISHING MEDIA:** Water, all purpose (ABC) dry chemical, CO2, foam.

**FIREFIGHTING:** During emergency conditions, overexposure to thermal decomposition products may cause a health hazard. An approved self-contained breathing apparatus should be worn.

**HAZARDOUS COMBUSTION PRODUCTS:** Not easily ignited. However, when ignited, and particularly in bulk storage, a hot and difficult to control fire may develop. This material emits acrid smoke and fumes when burning.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Sweep, shovel up, reuse material .

## SECTION 7 HANDLING AND STORAGE

Store in a cool dry place away from excessive heat or open flame.

## SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: NE

VENTILATION: There should be enough fresh air flowing past the user to maintain exposure levels below listed.

EYE PROTECTION: Safety glasses

CLOTHING: NE

GLOVES: Heavy cotton or impervious if practical.

RESPIRATOR: Under normal conditions of use, respiratory protection should not be required.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION:	Styrene-butadiene Rubber
PHYSICAL STATE:	Bale
ODOR	Slight
COLOR:	Light tan
MOLECULAR WEIGHT	NE
MOLECULAR FORMULA:	NE
BOILING POINT:	NA
FREEZING POINT:	NE
VAPOR PRESSURE	NA
VAPOR DENSITY (air=1):	NA
SPECIFIC GRAVITY (water=1):	NE
WATER SOLUBILITY:	Insoluble
p H :	NE
SOLVENT SOLUBILITY:	NE
VOLATILITY:	0.5 max. %
SPECIFIC GRAVITY	0.91-096
VAPOR DENSITY	NA
ODOR THRESHOLD:	NE
EVAPORATION RATE:	NE
VISCOSITY:	NE
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NE
SOLVENT SOLUBILITY:	NE

## **SECTION 10 STABILITY AND REACTIVITY**

REACTIVITY: NE

CONDITIONS TO AVOID: Material is stable

INCOMPATIBILITIES: NE

ETHERS: NE

HAZARDOUS DECOMPOSITION: CO, CO2.

POLYMERIZATION: NE

## **SECTION 11 TOXICOLOGICAL INFORMATION**

IRRITATION DATA: NE

TOXICITY DATA: NE

CARCINOGEN STATUS: NE

ACUTE TOXICITY LEVEL: NE

TARGET EFFECTS: NE

REPRODUCTIVE EFFECTS DATA: NE

ECOTOXICITY DATA: NE

FISH TOXICITY: NE

INVERTEBRATE TOXICITY: NE

AT INCREASED RISK FROM EXPOSURE: NE

ALGAL TOXICITY: NE

FATE AND TRANSPORT: NE

ENVIRONMENTAL SUMMARY: NE

HEALTH EFFECTS: NE

INHALATION: NE

NARCOTIC.

ACUTE EXPOSURE: NE

CHRONIC EXPOSURE: NE

SKIN CONTACT:

ACUTE EXPOSURE: NE

CHRONIC EXPOSURE: NE

EYE CONTACT:

ACUTE EXPOSURE NE

CHRONIC EXPOSURE: NE

INGESTION:

ACUTE EXPOSURE: NE

CHRONIC EXPOSURE: NE

## SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4): NE  
ACUTE AQUATIC TOXICITY: NE  
DEGRADABILITY: NE  
LOG BIOCONCENTRATION FACTOR (BCF): NE  
LOG OCTANOL/WATER PARTITION COEFFICIENT: NE

## SECTION 13 DISPOSAL CONSIDERATIONS

Incinerate, landfill in accordance with applicable environmental control regulations. Recycle if possible.

## SECTION 14 TRANSPORT INFORMATION

United State: NE  
Basic description: NA  
Freight description: Rubber, Synthetic, Crude, NMFC 171800.  
Primary hazard class: NA  
Subsidiary hazard class: NA  
Labels required: NA  
Reportable quantity: NA

## SECTION 15 REGULATORY INFORMATION

The components of this mixture are included in the US EPA Toxic Substance Control Act (TSCA) "Chemical Substance Inventory" and the Canadian "Domestic Substance List".  
This product does not contain a SARA S-313 Toxic chemical above the de minimis thresholds. The indicated material is subject to a final TSCA Rule-Section 4A,12B &13.

## SECTION 16 OTHER INFORMATION

This material is considered hazardous under the OSHA Hazard Communication Standard CFR Title 29 part 1910.1200 and the WHMIS Canadian legislation. Except for the process oils, the ingredients listed in composition / information on the components section are embedded in the material and will not be released. They are provided for information. Employees who prolonged contact with this material should practice good personal hygiene by frequent washing of hands and arms with soap and water.