

MATERIAL SAFETY DATA SHEET

SEETEC SB 1778

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUBSTANCE:	Styrene-butadiene Copolymer, oil-extended Rubber		
MSDS NO:	HPC - 778		
COMPANY IDENTIFICATION			
COMPANY:	Hyundai Petrochemical Co., LTD.		
ADDRESS:	679, DAEJUK-RI, DAESAN-UP, SEOSAN-CITY, CHUNGCHONGNAM-DO, KOREA		
EMERGENCY TELEPHONE NO	82-041-661-1869		
PLANT:	Synthetic Rubber production	CAS NUMBER:	9003-55-8 (for polymer)
CREATION DATE:	01/08/03	REVISION NUM':	0

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT:	Styrene-butadiene Copolymer, oil-extended
TRADE NAMES/ SYNONYMS:	SEETEC SB 1778 / SBR, oil-extended
CHEMICAL FAMILY:	Naphthenic oil, oil-extended
CAS NUMBER:	64741-96-4
PERCENTAGE (%):	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
2	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

CHANGE IN APPEARANCE: Solid

COLOR: Light tan

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: None known
LONG TERM EFFECTS: None known

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 this material.

INHALATION: NE

SKIN CONTACT: NE

EYE CONTACT: NE

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, dry chemical, CO2, form.

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: When exposed to flame, emits acrid fumes. No explosive hazards expected.

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Sweep, shovel or vacuum into container for disposal or use .

SECTION 7 HANDLING AND STORAGE

Keep away from excessive heat or open flame.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: NE

VENTILATION: When heated, provide adequate ventilation to remove fumes from the work area.

EYE PROTECTION: Safety glasses

CLOTHING: NE

GLOVES: NE

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: When heated to decomposition it emits very toxic fumes of carbon oxides.

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: compounds, rubber unvulcanized.
Primary hazard class: None
Subsidiary hazard class: None
Labels required: None
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". 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 product is a hazardous chemical as defined by the OSHA Hazard Communication Standard CFR Title 29 part 1910.1200 or the WHMIS Canadian legislation. Employees who prolonged contact with this stock should practice good personal hygiene by frequent washing of hands and arms with soap and water. Shower at the end of each work day. Remove contaminated clothing and wash before wearing again.