

# FleX Line

**Compound Termoplastici**  
**Thermoplastic Compounds**



**CENTERPLASTICS**  
COMPOUND & ADDITIVES

## MATERIAL SAFETY DATA SHEET

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** XFLEX SBS

**CHEMICAL NAME:** styrene-butadiene-styrene block copolymer

**CHEMICAL FAMILY:** styrene butadiene-based polymer

**PRODUCT DESCRIPTION:** Opaque to half transparent white solid pellets

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### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#
Styrene-Butadiene-Styrene Block Copolymer	9003-55-8
Additives	

### SECTION 3 HAZARDS IDENTIFICATION

**Human Health Hazards:** product adheres to the skin and causes burns.

**Safety Hazards:** Electrostatic charges may be generated during handling. Self-ignition of bulk product could occur above certain temperatures. Specifically for powder and accumulated polymer dust, dust explosion could occur.

**Environmental Hazards:** No specific Hazards.

**Other Hazards:** Not classified as dangerous for supply or conveyance.

**Special Notes:** These materials are rubber compounds, which are essentially non-toxic. Material is not irritating. If polymers dusts are gen-

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erated, they could scratch the eyes and cause minor irritation to the respiratory tract.

### SECTION 4 FIRST AID MEASURES

**Symptoms and Effects:** Not expected to give risk to an acute hazard under normal conditions of use.

**Inhalation:** Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

**Skin:** If contact with hot material, cool the burn area by flushing with large amounts of water. DO NOT attempt to remove anything from the burn area or apply burn creams or ointments. Cover the burn area loosely with a sterile dressing, if available and seek medical attention.

**Eye:** Flush eye with water. Seek medical attention if necessary.

**Ingestion:** No specific measures.

### SECTION 5 FIRE-FIGHTING MEASURES

**Specific Hazard:** Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide, carbon dioxide.

**Extinguishing Media:** Foam, water spray or fog, dry chemical powder, carbon dioxide, sand or earth. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Protective Equipment:** Wear protective clothing and self-contained breathing apparatus.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid raising a dust cloud.

**Environmental Precautions:** No special Measures.

**Clean-up methods-small spillage:** Shovel up for subsequent safe disposal as required by local, international or country specific regulations.

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**Clean-up methods-large spillage:** Transfer to a labeled, sealable container for product recovery or safe disposal as required by local, international or country specific regulations.

**Protective measures:** Wear appropriate personal protective equipment when responding to spills.

**Spill management:** Shovel and sweep up or use industrial vacuum cleaner. Proper disposal should be evaluated based on regulatory status of this material, potential contamination from subsequent use and spillage, and regulations governing disposal in the local area. Prevent entry into waterways, sewer or confined areas.

### SECTION 7 STORAGE AND HANDLING

**Storage:** Stack in a row and keep in a space. Keep container dry. Keep in a dry, clean, and well-ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Avoid accumulation of product in air. Avoid storage exceeding guarantee period.

**Handling:** Avoid generation or accumulation of dusts. Take precautionary measures against static discharges, earth/ground all equipment. Avoid contact with heated or molten product. Do not breathe dust, fumes or vapors from heated product. Use local exhaust ventilation in processing area. Take precautionary measures against direct sunlight and rain drenching during transport. Keep transportation vehicle clean. Avoid packaging destruction and keep away from impurity.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure:** None established.

In the absence of occupational exposure standards for this product, it is recommended that the following be adopted:

#### DUST, RESPIRABLE DUST

Total inhalable dust: TWA=10mg/m<sup>3</sup> (8h)

Respirable dust: TWA=4mg/m<sup>3</sup> (8h)

#### RUBBER FUME

Rubber manufacturing and processing giving rise to rubber dust and rubber fume.

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**Rubber fume:** MEL/TWA=0.6mg/m<sup>3</sup> (8h)

**Rubber process dust:** MEL/TWA (8h)=6mg/m<sup>3</sup>, MEL=maximum exposure limit

**Engineering control measures:** Use local exhaust ventilation.

**Personal protection:** Use practicable methods (wear dust-tight mono goggles, cloth gloves and work clothes) to protect eyes and minimum skin contaminate. If contact with product, wash hands and flush contaminated skin. Do not breathe vapors. For high airborne dust concentrations use respiration protective apparatus approved to be used.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** solid granular

**Odor:** essentially odorless

**Density:** typical between 910-930kg/m<sup>3</sup> 20 Deg.C

**Specific gravity:** <1

**Bulk density (for solids):** typical 260-310kg/m<sup>3</sup> 20 Deg. C

**Solubility (in water):** insoluble

### SECTION 10 STABILITY AND REACTIVITY

**Stability:**

SBS is stable under ambient conditions. Softening will start at above 90 degree, and plasticizing will occur at above 200 degree, degradation and burning will start at 300 degree and will release carbon monoxide, carbon dioxide.

**Conditions to avoid:**

Avoid contacting with strong oxidizing agents and exposing to elevated temperatures for extended periods in air.

**Hazardous decomposition products:**

Hazardous vapor from heated products are not expected to generate under normal processing temperatures and conditions. If the product is over heated, is smoldering or catches fire, a variety of thermal decomposition

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products may be present. These range from simply hydrocarbons (such as methane and propane) to toxic vapors (such as carbon monoxide and carbon dioxide, acrolein, aldehydes and ketones).

### SECTION 11 TOXICOLOGICAL INFORMATION

**Basis for assessment:** Toxicological data has not been determined specifically for this product. Information given is based on knowledge of the toxicology of similar products.

**Acute toxicity oral:** Expected to be of low toxicity, DL50>2000mg/kg

**Acute toxicity dermal:** Expected to be of low toxicity, DL50>2000mg/kg

**Acute toxicity Inhalation:** Data not available

**Skin irritation:** Not expected to be irritating

**Eye irritation:** Not expected to be irritating

**Skin sensitization:** Not expected to be a skin sensitizer.

**Repeated Dose Toxicity:** Repeated exposure does not cause significant toxic effects.

**Mutagenicity:** Not considered to be a mutagenic hazard

### SECTION 12 ECOLOGICAL INFORMATION

**Basis for assessment:** Ecotoxicological data have not been determined specifically for this product. The information given below is based on knowledge of the components and the ecotoxicology of similar products.

**Mobility:** Floats on water and remains on surface of soil.

**Persistence/Degradability:** Expected to be not inherently biodegradable. Persists under anaerobic conditions.

**Bioaccumulation:** Not expected to be bioaccumulate.

**Acute toxicity-fish:** Expected to be practically non toxic,  
LC/EC/IC50>1000 mg/l

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**Acute toxicity-invertebrates:** Expected to be practically non toxic,  
LC/EC/IC50>1000 mg/l

**Acute toxicity-algae:** Expected to be practically non toxic,  
LC/EC/IC50>1000 mg/l

**Acute toxicity-bacteria:** Expected to be practically non toxic,  
LC/EC/IC50>1000 mg/l

**Sewage treatment:** Expected to be practically non toxic,  
LC/EC/IC50>1000 mg/l

### SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Disposal:** Recover or recycle if possible, otherwise incineration,  
otherwise Licensed landfill as required by local specific regulations.

**Product Disposal:** Same as for waste disposal.

**Container Disposal:** Remove all packing for recover or waste disposal.

**Others:** If this material becomes a waste and has not been chemically  
altered, it is not considered to a hazardous waste as defined.

### SECTION 14 TRANSPORT INFORMATION

**International Air Transportation Association Classification:**

This material is not classified as hazardous under ITAT regulations.

**International Maritime Organization-IMDG:**

This material is not classified as hazardous under IMDG regulations.

**UN, IMO Code:**

This material is not dangerous for conveyance under these codes.

### SECTION 15 REGULATORY INFORMATION

RISK PHRASES NC Not classified.

SAFETY PHRASES NC Not classified.

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### SECTION 16 OTHER INFORMATION

Product may contain varying levels of additives, such as slip and no blocking agents, antioxidants, stabilizers, and corrosion inhibitors. Certain grades may contain talcum, as an additive that is encapsulated in the polymer. Inhaled talcum in an occupational environment has been not classified as a Group 1 human carcinogen by the International Agency for Research on Cancer. Centerplastics limited Company has assessed the potential for release of talcum to the air when this polymer is handled and has determined that talcum encapsulated in this polymer is not expected to pose a health hazard when processed under normal conditions of use.

**REVISION SUMMARY:** March 2011

**REVISION N.1**

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