

Material Safety Data Sheet (Outside North America)

Target Technologies FutrFill TPE

Revision Date: May 1, 2010

SECTION 1: Product and Company Identification

1.1 PRODUCT NOMENCLATURE: FutrFill TPE
1.2 PRODUCT IDENTIFICATION: Styrene-Butadiene-Ethylene-Styrene Block Copolymer
1.3 PRODUCT UTILIZATION: TPE Infill material
1.4 COMPANY IDENTIFICATION: **TDL Plastics LLC.**
10201 SPID Suite 104
Corpus Christi, TX 78418
1.5 EMERGENCY PHONE NUMBERS: 361-939-9898

SECTION 2: Products Composition/Information

TYPE OF PRODUCT: Styrene-Butadiene-Ethylene-Styrene Block Copolymer

	Name	%	CAS#
2.1 MAIN PRODUCTS:	Styrene-Butadiene-Ethylene-Styrene	10-70	66070-58-4
	Paraffinic Oil	15-30	8012-95-1
	Calcium Carbonate	35-55	471-34-1
	Polypropylene	0-10	9003-07-0
2.2 ADDITIVES:	Unpacking agent	< 0.2	
	Blowing agent	< 0.1	
	Inorganic dye	< 2.0	
	Organic dye	< 0.5	
	Anti UV Agent	< 0.1	

2.3 HAZARDOUS SUBSTANCES (DIRECTIVE 1999/45/CE): None to our knowledge

SECTION 3: Hazards Identification

3.1 PRINCIPAL HAZARDS: None to our knowledge connected to the use of the product. The preparation consists of inert polymer with specific substances added. The components and additives are finely dispersed and completely encapsulated on the polymeric matrix. All potential risks related to these substances are minimized.

3.2 POTENTIAL HEALTH EFFECTS:

- Eye Contact: Vapors from melted product may cause burns and eye irritation
- Skin Contact: Contact with hot and/or melted material may cause serious burns
- Ingestion: Very low toxicity if swallowed
- Inhalation: The physical characteristics of the pellet avoid inhalation. Fine particles if inhaled in large quantity may cause irritation to the respiratory tract. Above 200°C generate vapors/fumes which may cause irritation to the respiratory system, coughing, and difficulty breathing.

3.3 PHYSICAL AND CHEMICAL RISK:

Store away from flammable materials. The release on the ground makes ground or floor slick. The product is combustible.

SECTION 4: First Aid Measures

- 4.1 GENERAL MEASURES: Obtain medical attention.
- 4.2 SKIN CONTACT: After contact with the molten material, cool with cold water. Do not attempt removal without proper medical attention. For standard pellets, no special treatment is needed.
- 4.3 EYE CONTACT: Flush eyes with cold water and consult a physician.
- 4.4 INHALATION: Remove the affected person to fresh air. If effects occur, consult a physician.
- 4.5 INGESTION: In case of ingestion of large amount, consult a physician. Do not induce vomiting.

SECTION 5: Fire-Fighting Measures

- 5.1 EXTINGUISHING AGENTS: Agents approved for A level risk: water spray, foams, CO₂, dry chemicals.
- 5.2 EXPOSURE HAZARDS: Dense and suffocating smoke is emitted when burned without sufficient oxygen.
- 5.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Self-contained breathing apparatus, protective fire fighting clothing (fire fighting helmet, coat, trousers, boots, and gloves)
- 5.4 UNUSUAL FIRE AND EXPLOSION HAZARDS: High concentrations of dust are flammable and may cause explosions.

SECTION 6: Accidental Release Measures

- 6.1 PERSONAL PRECAUTIONS: Nothing in particular. Remove the product.
- 6.2 ENVIRONMENTAL PRECAUTIONS: Nothing in particular. Remove the product.
- 6.3 RECLAIM METHODS IN THE EVENT OF DISPERSION: Pick up the material with an aspirator or similar machine for soil dispersion or by skim in water dispersion.

SECTION 7: Handling and Storage

- 7.1 HANDLING: Handle in well ventilated area to avoid dust or vapor inhalation. For pneumatic or other mechanical conveying or handling equipment, the operations should be grounded to prevent accumulation of static charge. Use good procedures and fire suppression devices
- 7.2 STORAGE: Store in ventilated and dry area.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

- 8.1 GENERAL PRECAUTIONS: Do not inhale dust and fumes; avoid contact with eyes and skin
- 8.2 PERSONAL EXPOSURE:
- | | |
|-------------------------------|------|
| 8.2.1 RESPIRATORY PROTECTION: | none |
| 8.2.2 HAND PROTECTION: | none |
| 8.2.3 EYE PROTECTION | none |

8.2.4 SKIN PROTECTION

none

8.3 ENVIRONMENTAL EXPOSURE CONTROL: Respect current and applicable environmental rules

SECTION 9: Physical and Chemical Properties

9.1 GENERAL APPEARANCE:

-Appearance:	Pellets
-Shape	Semi-Ovoid
-Physical State:	Solid
-Color:	Various
-Odor:	Odorless
-Melting Point:	90-150 °C
-Flammability Limit:	More than 200 °C
-Density:	1.0-1.5 g/cm ³
-Water Solubility:	Insoluble
-Combustive Agent Properties:	None
-Explosive Properties:	Dust at high concentration may explode
-pH:	NA
-Grain Size (mm):	0.5-3.0

SECTION 10: Stability and Reactivity

10.1 GENERAL INFORMATION: Products stable at normal use conditions (T<180°C)

10.2 CONDITIONS TO AVOID: Avoid heating the product over 200°C

10.3 HAZARD DECOMPOSITION PRODUCTS:

Thermal decomposition generate water, CO₂, and CO even styrene and 1,3-butadiene monomers and others decomposition substance of the polymer.

SECTION 11: Toxicological Information

11.1 HUMAN EXPERIENCE: All components are classifiable: not carcinogenic to humans.

11.2 INGESTION: Low toxicity degree.

11.3 INHALATION: Inhalation of dust, fumes or hot product vapor may generate irritation to the respiratory tract.

11.4 SKIN CONTACT: Contact with hot product may cause burns. The repeated contact with fumes of product may cause dermatitis.

11.5 EYE CONTACT: Dust may cause irritation of eyes. The melted product can burn.

SECTION 12: Ecological Information

12.1 ECOTOXICITY: Inert in normal condition.

12.2 MOBILITY: Non-water soluble solid.

12.3 PERSISTENCE AND BIODEGRADABILITY: Not biodegradable

12.4 BIOACCUMULATIVE POTENTIAL: Product

12.5 OTHER NEGATIVE EFFECTS: None known

SECTION 13: Disposal Consideration

In compliance with all local, state, and federal laws the waste product from the working operation must be disposed of in a landfill or recycled.

SECTION 14: Transport Information

DOT Shipping Name: Not listed
DOT Label: Not regulated
DOT Hazard Class: Not applicable
UN/NA Number: Not applicable
Hazard Label(s): Not applicable
Hazard Placard(s): Not applicable
Packing Group: Not applicable
Bulk Packaging: Not applicable
RQ: Not applicable
Emergency Response Guide
(ERG) No.: Not applicable

SECTION 15: Regulatory Information

Not dangerous according to directive CEE 67/548/CE (dangerous substances) and 1999/45/CE (dangerous preparations).

For a correct use of the product advert to the following laws and next modifications and integrations:

D Lgs 285/98 (packaging and labeling)
DPR 303/56 (Work hygiene)
DPR 547/55 (Industrial accident)
DPR 336/94 (Industrial disease)
D. Lgs 626/94 (Safety)
D. Lgs 242/96 (Safety)
D. Lgs 25/02 (Chemical risk)
D.Lgs 152/99 (Water safeguard)
D.Lgs. 22/97 (Waste)
DPR 203/88 (Atmosphere emissions)
DLgs 475/92 (Personal protective equipment)

SECTION 16: Other Information

This product must be handle, storage and use according to safety, hygiene and good manufacturing practice laws and in compliance to national and/or local laws.

The information given in this material safety data sheet has been based on our current knowledge and should not be regarded as a guarantee of specific properties.

The rules and regulations in force in connection with the use of the product must be respected by the recipient under its responsibility.

It is possible that the precaution for safety and health contained in this form are not suitable for all uses and/or all situations. It is up to the user to evaluate and use this product in a safe manner with all laws and rules in force.

The information changed or added compared to previous revisions are shown in bold. This paper cancels and replaces any previous edition.