

ECOSTRATE SFS, LLC

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: EcoStrate™ TS - A substrate material produced from electronic plastic and textile waste.

Company Information:
EcoStrate™ SFS, LLC
1305 Rocky Canyon Road
Arlington, TX 76012

Emergency telephone: 1-214-693-7792

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Form: Solid sheet

Color: mixed light-colors

Odor: odorless

WARNING STATEMENTS

No significant hazards associated with this material

POTENTIAL HEALTH EFFECTS

Likely routes of exposure:	Inhalation
Eye contact:	No more than slightly irritating to eyes. Dust may cause eye irritation as would any foreign material.
Skin contact:	No more than slightly toxic if absorbed. Not irritating to skin.
Inhalation:	No information available.
Ingestion:	No more than slightly toxic if swallowed. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Average concentration	Concentration range	Units
Nylon 6 or 6,6 Fibers	25038-54-4 32131-17-2		>10 - <20	%
ABS or PC/ABS	9003-56-9 111211-39-3		>50 - <70	%
Fiberglass	65997-17-3		>5 - <10	%
Polyurethane Foam	9009-54-5		>0 - <5	%
Filler CaCO ₃	72608-12-9		>20 - < 30	%
¹ colors and trade secret ingredient(s)			<1	%

¹ The specific chemical identity and/or concentration is being withheld because it is trade secret information of ECOSTRATE SFS, LLC

4. FIRST AID MEASURES

If in eyes:	Immediate first aid is not likely to be required. This material can be removed with water.
If on skin:	Immediate first aid is not likely to be required. This material can be removed with water. Wash heavily contaminated clothing before reuse.
If inhaled:	Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air. Remove material from eyes, skin and clothing.
If swallowed:	Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice. Wash heavily contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

Hazardous products of combustion:	carbon monoxide (CO); carbon dioxide; hydrocarbons; hydrogen cyanide (HCN); soot; smoke; nitrogen oxides (NO _x)
Extinguishing media:	Water spray, foam, dry chemical, or carbon dioxide
Unusual fire and explosion hazards:	Dust generated during handling and/or storage can form explosive mixtures in air. ABS is a combustible thermoplastic material which may melt, drip and produce heavy black smoke when burned.
Firefighting equipment:	Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protection recommended in section 8.
Environmental precautions:	Keep out of drains and water courses.
Methods for cleaning up:	In case of spill, sweep, scoop or vacuum and remove. Flush spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing. Emptied containers retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The reuse of this material's container for non industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Storage

General: Stable under normal conditions of handling and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits: (ml/m³ = ppm)

ABS OSHA and/or ACGIH have not established specific exposure limits for this material. However, they have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) respectively, which are the least stringent exposure limits applicable to dusts.
 OSHA PEL: 15mg/m³ (total dust) 8-hr TWA
 OSHA PEL: 5mg/m³ (respirable) 8-hr TWA
 ACGIH TLV: 10mg/m³ (total dust) 8-hr TWA
 ACGIH TLV: 3mg/m³ (respirable) 8-hr TWA

Eye protection: Does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact. Wear safety glasses.

Hand protection: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.

Body protection: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash contaminated skin thoroughly after handling.

Respiratory protection: Avoid breathing dust. Use approved respiratory protection equipment when airborne exposure limits are exceeded. Consult the respirator manufacturer to determine the appropriate type of equipment for

a given application.
Observe respirator use limitations specified by the manufacturer.

Ventilation: Provide natural or mechanical ventilation to minimize exposure.
If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Specific gravity: 1.02
Melting point: 100 C
Water solubility: Insoluble
Odor: Possible slight organic odor

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: None known
Materials to avoid: None known
Hazardous reactions: Hazardous polymerization does not occur.
Hazardous decomposition products: phenolic compounds, nitrogen oxide, hydrogen bromide, carbon monoxide, styrene.

11. TOXICOLOGICAL INFORMATION

ECOSTRATE SFS, LLC has not conducted toxicity studies on this material and no toxicological information was obtained in a reasonably extensive search of the available scientific literature.

12. ECOLOGICAL INFORMATION

ECOSTRATE SFS, LLC has not conducted environmental toxicity or biodegradation studies with this material.

13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status: This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261.
Disposal considerations: Recycle
Reprocess
Incineration

Miscellaneous advice: Local, state, provincial, and national disposal regulations may be more or less stringent.
Consult your attorney or appropriate regulatory officials for information on such disposal.
This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations too properly classify your shipment for transportation.

US DOT

Other: Not regulated for transport.

Canadian TDG

Other: Not regulated for transport.

ICAO/IATA Class

Other: Not regulated for transport.

15. REGULATORY INFORMATION

All components are in compliance with the following inventories:

U.S. TSCA, Canadian DSL, EU ELINCS, Japanese ENCS, Australian AICS, Korean, Phillipine PICCS, Chinese

Other chemical inventory information: The polymer contained within this product is exempt from listing in the European Inventory.

Canadian WHMIS classification: Not Controlled

SARA Hazard Notification:

Hazard Categories Under Title III Rules (40 CFR 370): Not applicable

Section 302 Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

CERCLA Reportable Quantity: Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products

Regulation and the MSDS contain all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

Product use: Plastics

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	0	1	0	
Suggested HMIS Rating:	0	1	0	A

Prepared by ECOSTRATE SFS, LLC.

Please consult ECOSTRATE SFS, LLC @ 1-214-693-7792 if further information is needed.

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