

Material Safety Data Sheet



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Date-Issued 1/29/02
Date-Revised 9/7/06
MSDS # 00026

1.) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	StarTex Flame Retardant Film	Contact Address
Product Description:	Flame Retardant Polyolefin	Covalence Plastics
Product Code:	N/A	1401 West 94 th Street
		Minneapolis, MN 55431

Emergency Contact # (952)-884-7281
Customer Information # (952)-884-7281

2.) COMPOSITION

<u>Material</u>	<u>CAS Number</u>
Polyethylene or Ethylene-Olefin copolymer	009002-88-4
Antimony Trioxide	1309-64-4
1,2-bis tetrabromophthalimido ethane	32588-76-4

3.) HAZARDOUS INFORMATION

Emergency Overview

This product is not expected to present a safety and health hazard when used under reasonable conditions and as-intended/as-designed by the manufacturer.

Acute Health Hazards

Eye contact: Film may cause irritation or corneal injury due to mechanical contact.
Skin contact: Normal contact is non-irritating, but continuous mechanical grinding may cause irritation.
Inhalation: Avoid breathing dust, as prolonged exposure may cause irritation.
Ingestion: Swallowing may induce choking or blockage of the gastrointestinal tract.

Chronic Health Hazards

No adverse effects anticipated from available information.

Medical Conditions Aggravated by Exposure

Based on available information this product is unlikely to aggravate existing medical conditions.

4.) FIRST AID MEASURES

Eye contact: Flush eyes with water for several minutes. If irritation or other complications persist contact a physician.
Skin contact: If molten film comes in contact with the skin cool it with cold running water. Do not remove the material from skin as it may cause severe tissue damage. Contact a physician.
Inhalation: If film is under combustion and the person has inhaled vapors, move the person to fresh air. If effects occur consult a physician.

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Ingestion: If swallowed seek medical attention. Do not take laxatives. Also, do not induce vomiting unless told to do so by a physician.

5.) FIRE FIGHTING MEASURES

Extinguishing Media:
Special Fire Fighting Procedures:

Water spray, Carbon dioxide, dry chemical powder.
Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent fire control or dilution runoff from entering streams, sewers, or drinking water supply.

Special Protective Equipment:

For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

Unusual Fires and Explosion Hazards:

Exposure to fire can generate toxic fumes.

Hazardous Decomposition Products:

Flash Point: not est. Flammable Limits: not est.
Can include but not limited to acetic acid, carbon monoxide, carbon dioxide, various aldehydes, and hydrocarbons.

HMIS:

Health: 1 Flammability: 1 Reactivity: 0

6.) ACCIDENTAL RELEASE MEASURES

Notification Procedures

Land Spill:

Recover spilled material and place in appropriate container for disposal in compliance with all local regulations and laws.

Water Spill:

Hydrocarbons are subject to the Clean Water Act (40CFR122.6) initiated by the U.S. EPA. Material found in storm water runoff is subject to EPA regulations with the potential for fines and penalties.

7.) STORAGE AND HANDLING

Handling:

Care should be taken in use as plastic films have the potential to accumulate a static charge. Proper grounding may be required. Film should not be removed or wrapped where the air environment is potentially flammable. Keep material away from open flames, heat, and other means of ignition. Avoid contact with strong oxidizers.

Storage:

Store in a cool, dry area out of direct sunlight.

8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA:

No established exposure limits for the polymer.

Respiratory Protection:

No special requirements under ordinary conditions of use with adequate ventilation.

Eye Protection:

Normal industrial eye protection practices should be followed.

Skin Protection:

No precautions other than body covering clothing (long sleeves and pants) should be needed.

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Exposure Limits: This product does not have recognized exposure limits.
Ventilation: Use in well ventilated areas.
Engineering Controls: Physical handling and processing of this product may cause the product to accumulate a static charge. Care should be taken to ensure any static charge is properly grounded.

9.) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Flexible plastic film
Auto Flammability: Not determined
Color: Clear
Specific Gravity: 0.91-0.98
Flash Point: Not determined
Freezing Point: Not determined
Melting Point: 210+°F
Odor: Slight
Physical State: Solid
Water Solubility: Negligible

10.) STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: Extreme heat will cause decomposition.
Incompatibility: Strong Oxidizers
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, various aldehydes and hydrocarbons. Carbon monoxide is toxic if inhaled. Aldehydes are known irritants with the potential to induce skin sensitization and may potentially be carcinogenic. High concentrations of carbon dioxide may induce asphyxiation by reducing the oxygen concentration in the surrounding air. Bromine and Antimony will be released during decomposition.
Hazardous Polymerization: Will not occur.
Additional Information: This product is not expected to present a safety and health hazard when used under both intended and reasonable conditions.

11.) TOXICOLOGICAL DATA (See section 3 for potential health effects)

Acute Inhalation Effects: Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats.
Acute Oral Effects: No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.
Sensitization: No adverse effects are expected.
Chronic Toxicity: Subchronic, 50-90 day, feeding studies conducted on rats, dogs, and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.

12.) ECOLOGICAL INFORMATION

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Ecotoxicity: Negligible solubility. Poses life-threatening risks to wildlife if ingested.
Environmental Fate: No specific ecological data is available for this product.

13.) DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste as normal refuse in compliance with all federal, state, and local laws. Do not dispose of into any body of water, sewer, or on the ground. Compliance of disposal is the sole responsibility of the waste generator.

14.) TRANSPORT INFORMATION

U.S. D.O.T./CAN-TDG: Not regulated
I.M.O./I.M.D.G.: Not regulated
I.C.A.O./I.A.T.A.: Not regulated

15.) REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

Antimony Trioxide
1,2-bis tetrabromophthalimido ethane

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)

If this product is accidentally spilled it is not subject to any special reporting under the Comprehensive Environmental Response, Compensation, and Liability Act. In the case of a spill contact local authorities to ensure that all local reporting requirements are met.

Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Sections 311 and 312

Delayed Hazard: No
Fire Hazard: No
Immediate Health Hazard: No
Reactive Hazard: No
Sudden Release of Pressure Hazard: No

Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Section 313

The following components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and customer notification under Section 313 and 40 CFR Part 372:

This product contains antimony trioxide.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

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This product contains antimony trioxide, a listed substances known to the State of California to cause cancer, birth defects or other reproductive harm.

European Inventory of Existing Commercial Chemical Substances (EINECS)

All components in this product are in compliance with EINECS.

CEPA – Domestic Substances List (DSL)

The components of this product are on the DSL or are exempt from reporting under the New Substances Notification Regulations.

WHMIS – Canadian Workplace Hazardous Materials Information System

This product is not a controlled product under WHMIS

Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below

IARC (International Agency for Research on Cancer):

Antimony trioxide

NTP (National Toxicological Program):

Antimony Trioxide

1,2-bis tetrabromophthalimido ethane

16.) OTHER

Disclaimer: To the best of our knowledge the information contained is accurate. The information provided by raw material suppliers is believed to be true. This MSDS supersedes any previous MSDS for the same product as it contains the most current information.

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