



Material Safety Data Sheet

BioShrink (Tan) Shrinkwrap

SECTION 1 – IDENTIFICATION

Dr. Shrink, Inc. urges each customer or recipient of this Material Safety Data Sheet to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

Chemical Name: Polyethylene Resins

Technical Contact: Dr. Shrink, Inc.
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P) 231.723.2685 F) 231.723.9586

Notice: *This product is not FDA, CPSC, or NSF compliant. It is unsuitable for use in applications such as direct or indirect food contact, toys, medical devices, pharmaceutical applications or for potable water application.*

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Overview

This product is an inert, non-hazardous solid article, and is not respirable as marketed. Primary routes of entry are skin contact and inhalation of dust if product is in a regrind area. Inhalation is a low health risk because any potentially hazardous components are encapsulated. If adequate ventilation is not available in grinding areas respiratory protection is recommended for hazardous and/or nuisance dust.

Potential Health Effects

Eye contact: Dust concentrations from grinding material may cause mechanical irritation to eyes.

Skin contact: Dust concentrations from grinding material may cause skin irritation and dryness

Inhalation: Exposure to vapors and fumes from heating the polymer to decomposition may cause eye, mucous membrane and respiratory irritation. Dust concentrations from grinding material may cause respiratory irritation

Ingestion: This material is not toxic by ingestion, but can create a suffocation hazard if placed over the nose and mouth

Chronic effects: None are known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

	<u>CAS No.</u>	<u>% by weight</u>
Polyethylene	9002-88-4	75-95
Polyethylene Copolymer	26221-73-8	0-20
Manganese Oxide	1313-13-9	< 1
Aluminum Hydroxide Oxide	24643-77-6	< 1
Titanium Dioxide	13463-67-3	< 4
Zinc Stearate	557-05-1	< 1
Proprietary Additives		< 3

INTERNATIONAL SHRINKWRAP SUPPLIER

www.dr-shrink.com

P: (800) 968-5147
P: (231) 723-2685 (Outside U.S.)
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Dr. Shrink⁺

315 Washington St.
Manistee, Michigan 49660-1855

SECTION 4 – FIRST AID MEASURES

Eye contact:	No first aid is normally needed. If irritation occurs flush with water
Skin contact:	If heated molten material comes in contact with skin, quickly flush area with large amounts of cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn
Inhalation:	No harmful effects expected from normal use. If exposure to decomposition products and irritation occurs, remove to fresh air. If irritation persists, seek medical attention. If excess dust is present in a regrind area, use proper respiratory protection
Ingestion:	This material is not toxic by ingestion. Seek medical attention for ingestion of large quantities of material.

SECTION 5 – FIRE FIGHTING MEASURES

NFPA: Health 0; Fire 1; Reactivity 0; Others:

The flash point of this material is over 600° F. If a fire should occur, Carbon Monoxide (CO) and irritating smoke may be produced. Wear NIOSH approved self-contained breathing apparatus when fighting fires in enclosed areas. Fight fire with water, COs, or dry chemicals. Use flooding quantities of water until well after the fire is out.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Clean up material promptly to avoid slipping hazard. As a matter of good practice; prevent material from entering storm drains, surface waters. Collect for use or disposal.

SECTION 7 – HANDLING AND STORAGE

This product is normally shipped on pallets in boxes. These pallets should not be stored more than three (3) high. The boxes and plastic film will burn in the presence of open flame. Do not weld or use open flame where product is stored without proper firefighting prevention procedures.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation:	General ventilation should be adequate for normal use
Hand protection:	None needed under normal use conditions
Eye protection:	None needed under normal use conditions
Respiratory protection:	None needed under normal use conditions. If regrinding material, dust may be present, wear appropriate respiratory protection when exposure limits may be exceeded. The PEL for nuisance dust is 15 mg/m ³ .

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

This product is film sheeting with A VOC content of less than 5 parts per million. Density will vary depending on color and components from 0.85 to 1.5. Therefore, the product can sink or float in water depending on the properties. The product is not soluble in water and is odorless at ambient temperature. During heating a characteristic plastic odor will be present.

SECTION 10 – STABILITY AND REACTIVITY

This product is stable and non-reactive. Hazardous decomposition of products can occur if overheated or ignited.

SECTION 11 – TOXICOLOGICAL INFORMATION

The following chemicals are listed as known or suspected carcinogens per the National Toxicology Program (NTP), International Agency for Cancer Research (IARC), or California Proposition 65;

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Antimony Trioxide
Chromium Compounds
Nickel Compounds

Arsenic (Inorganic)
Di (ethylexyl) Phthalate
Crystalline Silica

Cadmium Compounds
Lead Compounds

If any of these chemicals are present in reportable weights within this product, they will be listed on age 1 Section 3.

SECTION 12 – ECOLOGICAL INFORMATION

No data is available at this time. This material is an inert plastic product. No adverse environmental effects are expected from normal use or disposal.

SECTION 13 – DISPOSAL MEASURES

This product is non-hazardous as shipped. If grinding occurs in recycling some of the encapsulated components may present an environmental disposal problem. Refer to applicable federal, state and local regulations.

SECTION 14 - TRANSPORTATION

This product is not a regulated substance under the Department of Transportation (DOT) regulations. All hazardous components, if any, are encapsulated.

SECTION 15 – REGULATORY INFORMATION

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyers' responsibility to ensure that its activities comply with federal, state, and local laws. The following specific information is made for purpose of complying with numerous federal, state and local law regulations. See other sections for health and safety information.

Sara 313 Information: Antimony Trioxide is listed in SARA Title III Section 313 under Antimony Compounds. Decabromodiphenyl Oxide is listed in SARA Title III Section 313.

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" (SARA Title III) and is considered, under applicable conditions to meet the following categories: Not to have met any hazard category.

Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

State Right-to-Know: This product is not known to contain any substances subject to disclosure requirements of New Jersey, Pennsylvania and California.

OSHA Hazard Communication Standard: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16 - OTHER INFORMATION

National Fire Protection Association (NFPA) ratings:

Health:	0	Flammability:	1	Reactivity:	0
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The opinions expressed are those of qualified experts within Dr. Shrink, Inc. We believe that the information contained is current as of the date of this Materials Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Dr. Shrink, Inc., it is the user's obligation to determine the conditions of safe use of this product.