

Polymer Products Company, Inc.

Material Safety Data Sheet

Product: Endura® PE – 102-1
8/28/2009

Section 1. Chemical Product and Company Identification

MANUFACTURER / SUPPLIER:

Polymer Products Company, Inc.
100 Station Avenue
Stockertown, PA 18083

PRODUCT NAME: Endura® PE-102-1
CHEMICAL FAMILY: Mixture
FORMULA: Mixture
CAS NUMBER: Mixture

Section 2. Composition / Information on Ingredients

<u>MATERIAL</u>	<u>CAS NUMBER</u>	<u>AMOUNT</u>
ANTIMONY TRIOXIDE	1309-64-4	15-27%
HALOGENATED ORGANICS	Proprietary	60 - 70%
POLYETHYLENE	9002-88-4	10 - 30%

Section 3. Hazards Identification

POTENTIAL HEALTH EFFECTS:

INHALATION: May irritate mucous membranes of the nose and respiratory tract.

EYE: May cause irritation.

SKIN: May cause irritation. Antimony Trioxide is a skin irritant, repeated or prolonged exposure may result in irritation and lesions. Skin irritation is increased by perspiration or moisture.

INGESTION: Low oral toxicity.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None Known

Section 4. First Aid Measures

INHALATION:

If respiratory irritation occurs, remove to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Seek medical attention if irritation persists or is severe.

EYE CONTACT:

Promptly flush with water, holding the eyelids apart, for 15 minutes. Seek medical attention.

SKIN CONTACT:

Wash contaminated skin with mild soap and water. Should a burn occur, cool burn area immediately with cool clean running water until no heat is emitted from the burn area. Seek medical attention.

INGESTION:

Wash mouth out with water. Consult a physician if pain or discomfort occurs.

NOTES TO PHYSICIAN (INCLUDING ANTIDOTES):

Treat symptomatically.

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Section 5. Fire Fighting Measures

FLASH POINT (METHOD USED):

None

FLAMMABLE LIMITS IN AIR (% BY VOLUME)

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water Spray, Carbon Dioxide, Foam, or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known

Section 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Carefully sweep up to prevent falls. Pellets can make floors slippery. Place in containers for use or disposal. Never flush any spilled material to the sewer.

Section 7. Handling and Storage

HANDLING:

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Avoid continuous or repetitive breathing of fumes, vapors, or dust. Use only with adequate ventilation. For industrial use only.

STORAGE:

Store in a dry well ventilated area. Keep container tightly closed when not in use.

Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS:

VENTILATION:

Not normally required; however, local exhaust is recommended during all hot processing, and where dust is expected to be a problem.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:

Safety Glasses with side shields or chemical goggles.

SKIN PROTECTION:

Wear protective gloves.

RESPIRATORY PROTECTION:

Not normally required unless dusty conditions are encountered. Use a NIOSH/MSHA approved mechanical filter type dust respirator when concentrations exceed the permissible exposure limits. The respirator use limitations made by NIOSH/MSHA or the manufacturer must be observed. If vapors or fumes are generated during melting operations, use a combination organic vapor/mechanical filter type cartridge respirator to prevent exposures.

OTHER PROTECTIVE EQUIPMENT:

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Boots, aprons, or chemical suits should be used as necessary.

PERMISSIBLE EXPOSURE LIMITS:

ANTIMONY TRIOXIDE:

OSHA: 0.5 mg/m³ as Sb, 8-Hour TWA (Time Weighted Average)

ACGIH: 0.5 mg/m³ as Sb, 8-Hour TWA

NUISANCE DUST:

OSHA: 15 mg/m³, 8-Hour TWA.

ACGIH: 10 mg/m³, 8-Hour TWA.

RESPIRABLE DUST:

OSHA: 5 mg/m³, 8-Hour TWA.

ACGIH: 5 mg/m³, 8-Hour TW

Section 9. Physical and Chemical Properties

BOILING POINT @ 760 MM HG:	N/A
VAPOR DENSITY (AIR=1):	N/A
SPECIFIC GRAVITY (H ₂ O=1):	>1
FREEZING/MELTING POINT:	>100 ^o C
SOLUBILITY (WEIGHT % IN WATER):	Insoluble
BULK DENSITY:	N/A
VOLUME % VOLATILE:	<1
VAPOR PRESSURE:	N/A
EVAPORATION RATE:	N/A
HEAT OF SOLUTION:	N/A
APPEARANCE AND ODOR:	Odorless pellets, approximately 1/8 to 1/4 inch in diameter.

Section 10. Stability and Reactivity

STABILITY:

Stable

CONDITIONS TO AVOID:

Excessive heat (Generally above 260^o C).

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, carbon monoxide, hydrogen bromide, various hydrocarbons, and products from incomplete combustion. Decomposition products depend on the conditions of heating or burning.

Section 11. Toxicological Information

TOXICITY DATA: FOR ANTIMONY TRIOXIDE

LC50 INHALATION:	Unknown
LD50 DERMAL:	(Rabbits) >2 G/KG
SKIN IRRITATION:	See Section 3

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EYE IRRITATION:
LD50 INGESTION:

See Section 3
(Rats) >34.6 G/KG

IS CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?

<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Yes	No	No

Section 12. Ecological Information

NO DATA

Section 13. Disposal Considerations

WASTE DISPOSAL METHOD:

Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of chemical materials and/or their containers in accordance with all federal, state and local regulations.

Section 14. Transport Information

This product contains Antimony Trioxide. Antimony trioxide appears on Appendix A (class 9) of the DOT hazardous materials list. RQ equals 1000 lbs. Antimony trioxide is pelletized in this product and therefore not available in free form. Antimony trioxide may contain 0.2 % arsenic which is also regulated by the DOT.

Section 15. Regulatory Information

All ingredients contained in this product are in compliance with TSCA.
Antimony Trioxide is listed in SARA Title III Section 313 under Antimony Compounds.
Decabromodiphenyl Oxide is listed in SARA Title III Section 313.

Section 16. Other Information

This product is in the form of extruded pellets to promote ease in handling and to minimize the hazards of component ingredients. Therefore, even though some small quantities of dust may be present, under normal handling and blending operations, dust exposure and resultant hazards would not be expected to be present with these concentrates.

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