



Rutland Plastic Technologies, Inc.  
10021 Rodney Street  
Pineville, NC 28134

## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product and Company Identification

**MANUFACTURING LOCATION:**

Rutland Plastic Technologies, Inc.  
10021 Rodney Street  
Pineville, NC 28134  
704/553-0046

**HAZARDOUS MATERIAL INFORMATION SYSTEM:**

Health:	2
Flammability:	0
Reactivity:	0
Personal Protection:	B

**IN CASE OF EMERGENCY CONTACT:** 704/553-0046

**PRODUCT NAME:** Flame Retardant additive  
**CHEMICAL FAMILY:** Mixture  
**PRODUCT CODE:** M00023

**MSDS NUMBER:** 57  
**DATE REVISED:** 5/24/00  
**DATE PRINTED:** 4/8/01

### 2. Hazardous Ingredients

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL
Triphenyl Phosphate	115-86-6	<8%	3 mg/m <sup>3</sup>	
Antimony Trioxide	1309-64-4	75%	.5 mg Sb/m <sup>3</sup>	.5 mg Sb/m <sup>3</sup>

### 3. HAZARDS IDENTIFICATION

**EYE CONTACT:** May cause moderate eye irritation.

**SKIN CONTACT:** May be irritating to skin.  
Dermatitis may result from repeated skin contact with antimony compounds.

**INGESTION:** Antimony ingestion may cause severe irritation of the intestinal lining.

**INHALATION:** Heated vapors may irritate eyes, nose, throat, mucous membranes and respiratory system.

## 4. FIRST AID MEASURES

**EYES:** Flush immediately with water for 15 minutes. Get medical attention.

**SKIN:** Remove contaminated clothing. Wash thoroughly with soap and water.

**INHALATION:** Remove to fresh air for relief. Get medical attention if necessary.

**INGESTION:** If victim is conscious, give liquids and induce vomiting. Get medical attention.

**MEDICAL CONDITIONS AGGRAVATED:** Diseases of the lung, kidney, liver, and nervous system.

**NOTE TO PHYSICIAN:** None

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (° F):** 390° F (PMCC)

**OSHA FLAMMABILITY CLASSIFICATION:** None

**EXTINGUISHING MEDIA:** Water fog, Carbon Dioxide, Dry Chemical, Multipurpose foam

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear full protective clothing including self-contained breathing apparatus.

**EXPLOSION LIMITS IN AIR - LOWER (%):** Not Available

**EXPLOSION LIMITS IN AIR - UPPER (%):** Not Available

**AUTO IGNITION TEMP (° F):** Not Available

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not an explosion hazard

## 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Dike to contain spill. Recover free product. Collect remaining product with absorbent materials.

## 7. HANDLING AND STORAGE

**HANDLING:** Wash thoroughly after handling. Avoid heated vapors.

**STORAGE:** Do not store near heat or flame. Store in closed containers when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>ENGINEERING CONTROLS:</b>	Use with adequate ventilation.
<b>RESPIRATORY PROTECTION EQUIPMENT:</b>	Not necessary at room temperature. In high temperature applications, use an NIOSH approved organic vapor respirator.
<b>PROTECTIVE GLOVES:</b>	Recommended
<b>EYE AND FACE PROTECTION:</b>	Chemical safety glasses recommended
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Not usually required
<b>VENTILATION:</b>	Local exhaust as needed near processing equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Range/Point:</b>	>400° F
<b>Vapor Pressure:</b>	0.026 mm Hg @ 150° C
<b>Vapor Density (AIR=1):</b>	>1
<b>Freezing Point:</b>	Not Applicable
<b>Melting Point:</b>	Not Applicable
<b>Physical State:</b>	Thick Liquid
<b>Color:</b>	Cream
<b>% Volatile by Weight:</b>	Not Available
<b>VOC (g/l):</b>	Not Available
<b>Evaporation Rate (Butyl Acetate=1):</b>	Not Available
<b>Specific Gravity @ 25° C:</b>	2.2-2.4
<b>Weight per gallon:</b>	18.3-19.97

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Material is stable
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur
<b>HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:</b>	CO, CO <sub>2</sub> , HCl, toxic acidic vapors from Phosphorus oxides.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	Strong acids, bases, nascent hydrogen, reducing agents.
<b>CONDITIONS TO AVOID:</b>	Excessive heat

## 11. TOXICOLOGICAL INFORMATION

<b>CARCINOGENICITY:</b>	Antimony trioxide is classified as an IARC group IIB suspect carcinogen based on rat inhalation tests. The liquid form of this product makes this a highly unlikely means of exposure.		
<b>ACUTE ORAL LD50:</b>	>5000 mg/kg (rat);	<b>ACUTE DERMAL LD50:</b>	>2000 mg/kg (rat)
<b>ACUTE INHALATION LC50:</b>	>200 mg/L (rat, 1 hour)		

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Not Available

**CHEMICAL FATE INFORMATION:** Not Available

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Disposed material is not a listed RCRA Hazardous waste.  
Dispose of materials in accordance with the applicable Local, State, and Federal regulations.

## 14. TRANSPORT INFORMATION

Not regulated for shipment in single containers holding 1333 lbs. or less.

**DOT SHIPPING NAME:** Environmentally Hazardous Substance, liquid, n.o.s.

**DOT HAZARD CLASS:** 9

**UN/NA NUMBER:** UN3082

**DOT PACKING GROUP:** III

**AIR FREIGHT TRANSPORTATION:** Not applicable

**OCEAN TRANSPORTATION:** Not applicable

## 15. REGULATORY INFORMATION

**TSCA STATUS:** All components of these products are on the US TSCA Inventory.

**CALIFORNIA PROPOSITION 65:** Antimony trioxide 1309-64-4

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:** None

**SARA (311,312) HAZARD CLASS:** Immediate (acute) health

**SARA SECTION 313 TOXIC CHEMICALS:** None

**CARCINOGENS ACCORDING TO NTP, IARC, OR OSHA:** IARC group IIB (Antimony)

**CERCLA RQ:** 1333 lbs

**AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES:** Unknown at this time.

**CANADIAN INVENTORY:** Antimony trioxide 1309-64-4  
Triphenyl phosphate 115-86-6

**EINECS REGULATIONS:** Unknown at this time.

**JAPAN:** Unknown at this time.

**KOREAN CHEMICAL INVENTORY:** Unknown at this time.

## 16. OTHER INFORMATION

### DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

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## 17. LABEL INFORMATION

<b>SINGLE WORD:</b>	CAUTION
<b>EYES:</b>	May cause moderate eye irritation
<b>SKIN:</b>	May be irritating to skin. Dermatitis may result from repeated skin contact with antimony compounds.
<b>INGESTION:</b>	Antimony ingestion may cause severe irritation of the intestinal lining.
<b>RIGHT-TO-KNOW CHEMICALS:</b>	Antimony trioxide 1309-64-4 Triphenyl phosphate 115-86-6